

## Multiwall Polycarbonate Panels

**Q. Are multiwall polycarbonate panels strong?**

A. Multiwall panels are extremely durable and virtually unbreakable; 10-times stronger than acrylic and 200-times stronger than glass.

**Q. Are multiwall polycarbonate panels flexible?**

A. Yes, polycarbonate panels are highly flexible and may be curved or bent using common forming processes. The structure and thickness of the panel will impact the extent of radius bending.

**Q. What is the longest length multiwall polycarbonate sheet in stock?**

A. The longest sheet is 48'. Every order is custom cut per customer's specifications.

**Q. What is the widest width multiwall polycarbonate sheet in stock?**

A. The widest sheet is 48", 71.25", or 72" depending on product.

**Q. In what colors are multiwall polycarbonate sheets available?**

A. Clear, Bronze, Opal, White, and Softlite. Additional colors are available by special order and have minimum order requirements.

**Q. What are the flutes in a multiwall polycarbonate sheet?**

A. Multiwall polycarbonate is characterized by hollow rectangular structures that run the length of the sheet, known as 'flutes', 'ribs', or 'channels.' The flutes trap air and create a thermal barrier as well as provide strength and long spanning capabilities.

**Q. Why should multiwall polycarbonate panels be installed with the flutes oriented vertically?**

A. Vertical installation allows moisture that may accumulate in the flutes to drain out.

**Q. Can multiwall polycarbonate panels be connected end to end?**

A. No, multiwall polycarbonate panels should not be connected end to end. Doing so can compromise the structural integrity of the installation, lead to water leakage, and prevent proper thermal expansion and contraction. Instead, panels should run the full length of the application, or a structural support with proper flashing and sealing should be used between panels to ensure performance and durability.

**Q. How do I clean out the debris that has built up in the flutes of a polycarbonate multiwall sheet?**

A. Remove dirt, dust, and other particles with a vacuum or blow out with compressed air. We do not recommend flushing the flutes with water. **(Click here to watch video)**

**Q. How do you keep dust and dirt out of the flutes of a multiwall polycarbonate sheet?**

A. Before installation, apply sealing tape to both ends of the polycarbonate sheet to prevent dust, bugs, and other debris from entering the flutes. We recommend using a high-quality vent tape on the bottom edge of the sheet to allow for moisture drainage. **(Click here to watch video)**

**Q. What is Lumira® aerogel?**

A. A dry silica particulate, Lumira® aerogel is a recyclable, lightweight insulation that repels water and retains its properties under compression.

**Q. What are the benefits of filling polycarbonate multiwall panels with Lumira® aerogel?**

A. Lumira® aerogel increases the insulation factor, provides superior light diffusion, eliminates glare and hot spots, improves acoustic performance, reduces solar heat gain/loss, and decreases energy usage.

**Q. Why choose multiwall polycarbonate for a pool enclosure?**

A. Light in weight, polycarbonate is easy to handle and install. Panels are incredibly strong and will not shatter like glass if damaged. Thermal insulation properties keep the enclosed pool area warmer. The UV-treated outer surface provides sun protection, reducing the risk of sunburn.

**Q. What is the best way to cut multiwall polycarbonate sheets?**

A. This depends on the length of the cut and the width of the panel. Sheets may be cut using a utility knife, circular saw, or table saw. A fine-tooth blade is recommended. Please reference the multiwall installation guide for detailed cutting information.

**Q. What are polycarbonate H- and U-channels used for?**

A. A polycarbonate H-Channel joins two multiwall polycarbonate sheets together side by side, providing a finished, professional look. A polycarbonate U-Channel caps off the top and bottom of a multiwall polycarbonate sheet, preventing dust and bugs from entering the flutes. Note: Drill holes in the profile used to cap off the bottom edge of the sheet for moisture drainage.

**Q. Can a H-channel be installed horizontally?**

A. Polycarbonate H-channels should not be used horizontally to join sheets end to end. H-channels must be installed vertically with the slope to allow proper drainage. Using them as a horizontal connection between sheet ends can lead to system failure.

**Q. How can I get my H- or U-Channel to slide onto the sheet?**

A. Try rubbing a bar of hand soap or squirt mild liquid dish detergent on the edge of the sheet. A putty knife may also be used to gently pry open the profile. After the profile has been installed, use a soft, wet cloth to remove any excess soap. **(Click here to watch video)**

**Q. Are there minimum order requirements for LEXAN™ THERMOCLICK™ sheets?**

A. There is no minimum order quantity (MOQ) for stock color LEXAN™ THERMOCLICK™ sheets. For custom or special-order colors, call 888.602.4441 or email [info@amerilux.com](mailto:info@amerilux.com) for minimum order quantity information.

**Q. What is the minimum square footage for ordering LEXAN™ THERMOCLICK™ in special colors?**

A. Custom or special colors require a minimum order of 3,175 square feet or 50 sheets of stock lengths (sheet size is 19.69" x 464.4"). LEXAN™ THERMOCLICK™ special order color options are Yellow, Orange, Red, Green, Purple, SCIR Blue, SCIR Green, and SCIR Grey.

**Q. What is a standing seam panel?**

A. A polycarbonate panel with raised edges. A batten snaps over the raised edge of two adjacent panels to form a seam. This snap on connection system eliminates the need for aluminum connectors, reducing material costs and installation time.