

POLYCARBONATE SYSTEMS

In addition to our conventional glass glazed skylights, Super Sky also offers a line of various polycarbonate systems. Polycarbonate is an impact resistant, flexible, color stable, non-toxic, recyclable glazing material that is available in a wide assortment of panel sizes. Polycarbonate, unlike other translucent materials, will **not** support its own combustion - a very important fire-life safety consideration. Our system descriptions are as follows:

THE EDGE - Super Sky's single layer polycarbonate system utilizing 10mm, 16mm and 25mm thick polycarbonate panels up to 5'-0" wide x 39'-0" long. One of the main features of this system is the construction of the panel, which relies on no mechanical fasteners to assemble the panel components. All panel components, such as the continuous polycarbonate edgers and purlin stiffeners, are sonically (sound) welded to the panels.

STANDING SEAM - Super Sky's single layer standing seam polycarbonate panel system utilizing standard sized panels, which are nominally 23-5/8" wide (600mm). The standing seam joints between the panels are secured and covered with continuous color matching polycarbonate batten caps.

AVAILABLE PANEL COLORS:

THE EDGE: Clear, Bronze, Opal, White, Green*, Blue*

STANDING SEAM: Clear, Bronze, Opal, Ice Mist*, Green*, Blue*

* Premium colors require minimum order



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Below is a list of standard criteria for working with polycarbonate sheet. These should be kept in mind when detailing, fabricating, and installing polycarbonate projects.

UV Protective Coating: The polycarbonate panels ship from the factory with a protective plastic sheet on the exterior surface of the polycarbonate. This sheet protects the outside face of the panel from dirt and scratching, and also identifies the exterior surface of the polycarbonate. This surface of the polycarbonate panel must always be glazed to the exterior, as the panel has a UV protective coating on this surface only (Standing Seam has both sides protected). Failure to glaze this surface to the exterior will result in permanent yellowing of the panel.

Polycarbonate Panel Storage: Panels should be stored in such a way as to keep them dry, and also to keep them away from direct sunlight and heat build-up. Storing panels in direct sunlight can cause the plastic covering to heat bond to the panel surface, making it very difficult, if not impossible to remove the plastic sheet.

Removal of Plastic Covering: The protective plastic sheet should be removed immediately after installation, to avoid adhesion problems caused by exposure to the sun and heat build-up. If not removed within a few minutes, on a hot sunny day, the plastic can melt to the panel surface and become impossible to remove.

Taped Panel Ends: Panels are delivered to the jobsite with the ends taped. The upper end of the panel has a solid tape, while the bottom has a filter tape, to allow condensation inside the panel to escape. Panels must always be installed with the filter tape to the bottom of the panel, or dirt build-up and mold can occur.

Skylight Slope: Super Sky recommends at least a 10° minimum slope on all polycarbonate skylights, to minimize problems with dirt build-up and moisture drainage from within the panels.

Drilling Holes: In the unlikely event holes must be drilled in the panel for attachment, holes must be oversized by ¼" minimum, to allow for thermal expansion of the panel.

Cleaning: Clean the polycarbonate panel surfaces with water and a mild non-alkaline soap solution and soft cloth. Do not use scrapers or abrasive materials, as permanent damage to the panels will occur. Do not use IPA and other similar chemicals, as the UV protective coating may be removed, resulting in a yellowing of the panels.



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Standing on Polycarbonate Sheet: Do not stand or walk directly on the polycarbonate panel surface. A board, plank, or ladder should be placed on the skylight, preferably across the aluminum caps, to prevent damage to the polycarbonate.

Thermal Expansion: Polycarbonate materials expand considerably when heated. They absorb heat from the sun and experience considerable thermal growth. This "thermal growth" must be allowed to occur, or warping, buckling, and noise problems can result. Room for panel expansion has been allowed for in the design of the skylight system, either at the top or bottom of the panels. When installing the panels, please make sure to position the panels properly, before installing the curb clamping angle and typical retainers. On any retainer, the ¼-20 Torx head screws should be tightened just enough to begin to compress the gaskets, but not any further. Clamping the panel too tightly will restrict the panel movement, and noise or warping may result.



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