



Application solutions from Covestro

Solarium and patio enclosures built from Makrolon® multi UV sheet provide natural light, insulation, and durability



Application

Outdoor casual living structures that afford natural light and protection from the elements

Challenges

To expand year round casual living and dining spaces, homeowners, hotel and restaurant operators often add on a solarium or enclose patios and porches. Typically they want ample natural lighting for potted plants, and to preserve a sense of openness. At the same time, outdoor exposure requires that the materials of construction withstand accidental impact, high wind loads and hail, and provides thermal insulation.

Glass is at risk of breakage especially in high traffic and play areas. Its weight can be problematic for overhead installations. Breakage risks from casual impacts and severe weather generally rule out acrylic. Clear monolithic sheet materials may not provide adequate thermal insulation as single pane systems, and dual pane configurations add significant cost.

Solution

Makrolon® multi UV multiwall polycarbonate sheet

- High light transmission provides plenty of natural lighting.
- Multiwall construction with air channels affords high insulating values.
- Polycarbonate's inherent toughness minimizes the risk of breakage from severe weather and accidental impacts in work and play areas.
- Integral UV protection assures long life in exterior installations.
- Sheets can be more accurately sized, cut, and cold curved during construction on site.
- An exceptional combination of stiffness and light weight facilitates overhead installation.

Related Applications

Pool enclosures, covered car ports, garden and driveway partitions





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