

POLYCARBONATE ADVANTAGES:

- LIGHTWEIGHT-*** Polycarbonate has a very high *stiffness to weight ratio*. The horizontal support purlins need not be as heavy, as in the case of glass. Polycarbonate also has flexibility, providing a greater *allowable deflection* vs. glass. The sheets are extruded in lengths up to 39 feet, and can run ridge to eave in one continuous piece. Because of this, there are no horizontal seams or top purlin caps as with smaller glass sizes. This, in turn, saves structural materials and installation time.
- DURABLE -*** Polycarbonate has *UV inhibitor* co-extruded on the outer surface, which prevents damaging UV radiation from penetrating the sheet. UV protection means longer life and prevention of yellowing and deterioration.
- ENERGY SAVING*** –The 25mm multi-wall polycarbonate has an *R-Value* up to 3.78, with better insulating properties than triple-glazed or argon filled high performance double-glazed insulated glass.
- LIGHT TRANSMISSION*** –
For solar control and *reducing heat build up*, 25mm opal has a light transmission as low as 24% (.52 shading coefficient) and the 25mm bronze 15% (.45 shading coefficient). See separate glazing data chart.
- PRICE COMPARISON***–
Polycarbonate is *1/3 to 1/2 less than the cost* of insulated glass.
- DAMAGE RESISTANCE*** –
Polycarbonate has *impact resistance* up to 200 times stronger than glass. This characteristic is maintained over a broad temperature range and prolonged lifetime, offering *excellent protection* against hailstorms, accidental damage, or vandalism. A 10-year warranty is provided; see full details of document.
- FIRE RESISTANCE*** –
Polycarbonate has a Class I surface spread of flame rating when tested to BS476 part 7. Polycarbonate is *self-extinguishing*.
- SAFETY*** –
Polycarbonate is an approved plastic for *safety glazing* under the 2006 IBC slope glazing code. Polycarbonate eliminates concerns about code exceptions that single glazed or multiple glazed insulated glass have. (See current sloped glazing 2006 IBC Section 310.)

In summary, Polycarbonate is an excellent glazing material for large roof areas such as Pool Enclosures, Greenhouses, Canopies and Atriums. The benefits are numerous; saving installation labor, energy and material costs.