

# Advanced Glazing Technology

## Maximum Control, Comfort & Efficiency

Advanced glazing allows you to harness all the positive benefits of natural daylight without suffering the undesirable effects such as excessive heat gain, glare and fading.

### Electrochromic Glass

An electronically tinted glass that can be switched from clear to a dark tint at the click of a button, or programmed to respond to changing sunlight and heat conditions. Energy consumption and costs are greatly reduced. Electrochromic glass offers significant advantages over conventionally glazed products because they provide the highest possible solar control without sacrificing the view through the glass.

### Photovoltaic Glass

Skylights are an ideal application for photovoltaic glass (PV). They are normally well exposed to the sunlight, allowing for optimal energy yield. PV skylights also improve thermal inner comfort, since most of the UV and infrared radiation are filtered out by the Silicon-based material. Semi-transparent PV glass reduces the need for artificial lighting, generates power, and provides thermal and sound insulation.

### Aerogel

Lumira® Aerogel is among the lightest and most effective insulating materials in the world. Made of a dry silica particulate, aerogel is completely recyclable, eco-friendly, and non-combustible. It is a lightweight insulation and daylighting solution that repels water, reduces sound, retains its properties under compression, and can enhance fenestration design options and aesthetics. Aerogel can be used as a fill in insulated glass or multiwall polycarbonate panels.

### Multiwall Polycarbonate

High-performance, lightweight panels maintain high clarity and provides an outstanding balance of impact strength and stiffness, excellent thermal insulation, UV protection, flame and condensation control, and long-term high light transmission. Panels filled with aerogel offer superior thermal performance of a typical insulated glass skylight, full spectrum diffused daylight, are completely moisture resistant, and reduced sound transmission.

### Translucent Insulated Glass

Used in architectural daylighting to provide the highest quality of diffused daylight, it converts harsh direct beam sunlight into soft diffuse daylight while allowing you to design your desired light level without excessive heat gain, glare, or fading. Filling with aerogel improves energy efficiency and reduces sound transmission.



Electrochromic Glass



Photovoltaic Glass



Aerogel Filled Polycarbonate



Multiwall Polycarbonate



Translucent Insulated Glass