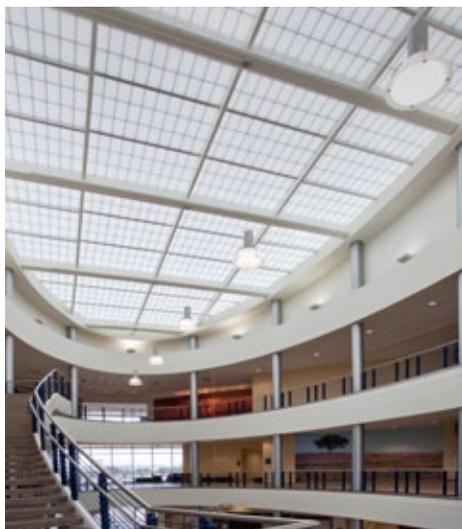


# EDUCATION FACILITIES



## DAYLIGHTING & SCHOOLS - AN A+ COMBINATION

Major Industries, a leader in daylighting for more than thirty-five years, prides itself on creating long-lasting, field-tested products that are both beautiful and functional. The following examples are just a few design possibilities available with our Guardian 275<sup>®</sup>, Clima-Tite<sup>™</sup> and LightBasic<sup>™</sup> translucent panel systems, our IlluminPC<sup>™</sup> polycarbonate multi-wall systems and Auburn<sup>®</sup> glass and mixed glazed skylights.



**ENTRANCES:** Welcome students and teachers and protect them from the elements with a bright and welcoming outdoor canopy or “pass-through” skylight that draws people in to the facility.

**CLASSROOMS:** Natural light has been shown to improve student focus and test scores (see details on reverse), and Major offers a wide variety of daylighting systems that allow for numerous design options plus light control and ventilation. Major can also create mixed glazed systems in both skylight and wall system configurations that offer views to the outdoors and occupant control of ventilation while retaining the thermal performance and light control benefits of translucent panels.

**HALLWAYS:** Open up confined spaces by incorporating a skylight or row of multiple skylights - they’re perfect for illuminating well-traveled areas with natural light.

**GATHERING AREAS:** Cafeterias and common areas are more welcoming when enhanced with natural light — and the cost savings can be tremendous when compared with having to light these spaces solely with artificial lighting, especially since they’re at their busiest during peak energy use hours.



**SPORTS FACILITIES:** Large gymnasiums and pool areas require a tremendous amount of artificial light. Cut energy costs and offer students the natural comfort of daylighting. Guardian 275<sup>®</sup>, Clima-Tite<sup>™</sup> and LightBasic<sup>™</sup> translucent panel systems are the perfect solution for bringing glare-free, impact-resistant daylighting to athletic facilities.

# Daylighting Design Guide

## EDUCATION FACILITIES

### BOTH SCHOOLS AND STUDENTS IMPROVE WITH DAYLIGHTING

Natural light can have a large impact on student performance. A study done by Heschong Mahone Group, "Daylighting in Schools" (2002), evaluated daylighting and human performance in three separate school districts in differing climates, with different building designs, teaching styles, and curricula. The study indicated that "most teachers felt that windows and daylight[ing] improved the mood of their students, keeping them calm and improving their attention spans. Higher illumination levels in daylight classrooms simply help keep children more alert and capable of absorbing new information."

Well-designed daylighting has long been shown to have significant economic payoffs such as reduced demand for electricity, but it's important to remember that natural light can boost student health and general mood, illicit better behavior, and increase focus. Students with the most daylighting in their classrooms also progressed 20% faster on math tests and 26% faster on reading tests in one year than those with the least amount of daylighting. Students with well-designed skylights in their classrooms - ones that diffuse the daylight - also improved 19-20% faster than those without a skylight (according to Daylighting in Schools, Condensed Report, Heschong Mahone Group).



### WHY MAJOR IS THE RIGHT CHOICE FOR YOUR DAYLIGHTING NEEDS

Major's full line of skylights and translucent wall systems can benefit both building occupants and the bottom line.

- Translucent panel systems offer glare-free natural light without hot-spots, as well as insulation options for enhanced thermal performance
- Guardian 275® and Clima-Tite™ wall systems can be configured with operable windows, and we have numerous other mixed glazing options for both wall systems and skylights.
- TAP (Translucent Adapter Panel) systems that can integrate with existing curtainwall framing
- Clima-Tite™ systems offer the benefit of pultruded fiberglass support members for enhanced thermal performance and corrosion resistance
- Field-tested strength, color-retention and durability - all backed by industry-best warranties
- Integrated water management systems are standard on most systems
- Incorporating daylight provides health benefits like improved mood and productivity, as well as energy savings and reduced HVAC loads
- LEED® credit opportunities



SKYLIGHTS, CANOPIES & TRANSLUCENT WALL SYSTEMS

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