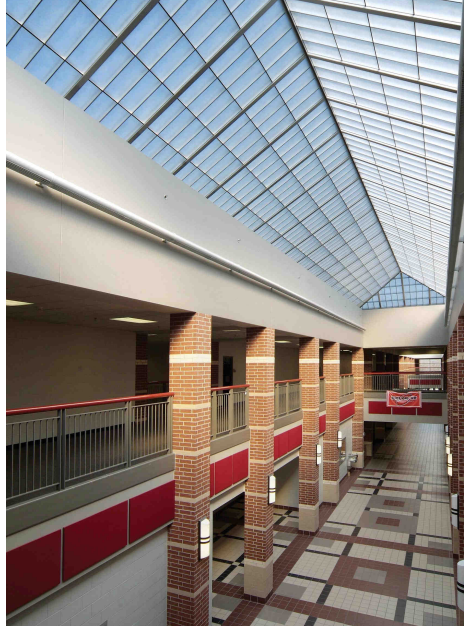




LEED[®]

FOR SCHOOLS REFERENCE GUIDE

**LEED[®] 2009 (v3) FOR SCHOOLS—
NEW CONSTRUCTION & MAJOR RENOVATIONS**



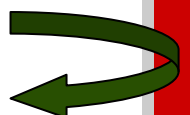
Improve the quality of your indoor environment... without sacrificing strength or beauty. Guardian 275 Translucent Panel systems and Auburn[®] Engineered Skylights can be designed for every design and budget, with the added advantage of possible LEED[®] credit opportunities (described on reverse). Here are just a few benefits of using Major Industries for your daylighting needs:

- **Daylighting systems available in a wide variety of configurations and feature numerous glazing options including translucent FRP, glass, polycarbonate multi-wall and acrylic—as well as mixed glazing systems**
- **Optimization of energy performance and reduced HVAC loads**
- **Reduced need for “energy-hungry” artificial lighting**
- **Standard integral water management systems for worry-free performance**
- **Post-consumer and post-industrial recycled content**

Incorporating daylighting is an environmentally conscious design solution, but your school's occupants will also gain the immediate benefits of natural light. Besides added visual appeal, numerous studies show the positive mental and physical effects of daylight on the human body, including improved mood and the ability to focus on tasks more effectively. Natural light can have an effect on test scores as well, as studies show that access to daylighting increases productivity and allows students to perform at a higher level.

Major Industries has been engineering and manufacturing energy-saving, worry-free daylighting solutions for three decades. Our expertise, experience, and innovation make us the right choice for all your daylighting needs.

**SEE REVERSE FOR LEED[®]
CREDIT OPPORTUNITIES
BY CATEGORY**



LEED® CREDIT OPPORTUNITIES BY CATEGORY*



SS Credit 7.2 – Landscape & Exterior Design to Reduce Heat Islands, Roof Surfaces (1 point)

Reduce heat islands to minimize impact on microclimate and human and wildlife habitat. Use roofing materials having a Solar Reflectance Index equal or greater than the following values for a minimum of 75% of the roof surface. (Low-Sloped ≤ 2:12 78, Steep-Sloped > 2:12 29)

Major's daylighting solutions can be configured to provide significant reflectivity and high emissivity. Optional colors for the aluminum structural framing are blended to promote "cool" surface temperatures as well.

** Credits and descriptions are based on LEED® 2009 (v3) and are subject to change with version updates. Additional credits may apply.*

MR Credit 3 – Materials Reuse, (1 – 2 pts)

Use salvaged, reused or refurbished materials, the sum of which constitutes at least 5%/10% of the total material value.

When a building is in a renovation process the existing Major Industries skylights and/or curtainwall may be renovated by one of the following methods: 1) Reuse existing framing system while replacing the glazing material only. 2) Replace the entire system - frame and glazing.

SS Credit 8 – Light Pollution Reduction (1 point)

Minimize light trespass from the building and site, reduce sky-glow, improve nighttime visibility, and reduce development impact on nocturnal environments.

Major's Guardian 275® translucent systems and select Auburn® skylights can be configured to provide quality light management. Light transmission levels and other quality parameters are controlled by glazing and color selection.

MR Credit 4 – Recycled Content, Specify 10%/20% (1–2 points)

Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10%/ 20% of the total materials value.

As a result of selective purchasing of materials from responsible vendors, Major's daylighting systems include both post-consumer and post-industrial recycled content (percentages may vary depending on the system requirements).

EA Prerequisite 2 – Minimum Energy Performance

Design the building project to comply with... ASHRAE/IESNA Standard 90.1-2007.

Energy-saving daylighting solutions from Major Industries allow natural sunlight to illuminate interior spaces, thereby saving energy and stabilizing HVAC loads.

MR Credit 5 – Local/Regional Materials, 10% /20% (1–2 points)

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site.

Major Industries, Inc. is within the allowed radius of Chicago, Minneapolis, Detroit, St. Louis, Indianapolis and other metropolitan areas. Projects falling within 500 miles of Wausau, Wisconsin may qualify.

EA Credit 1 – Optimize Energy Performance (1 – 19 points)

Demonstrate a percentage improvement in the proposed building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2007.

Energy-saving skylights and translucent curtainwall from Major Industries allow natural sunlight to illuminate interior spaces, thereby saving energy and stabilizing HVAC loads.

IEQ Credit 4.1/4.2 – Low-Emitting Materials— Adhesives and Sealants/Paint and Coatings (1 point each)

Adhesives, sealants, paints and coatings must comply with stated VOC limits and standards.

The sealants, paints and coatings Major utilizes in its daylighting systems, and that are specified in our installation manuals, are all below specified VOC limits.

MR Credit 1.1 – Building Reuse, (1 – 3 points)

Maintain existing building structure (by percentage) to extend lifecycle of existing building stock, conserve resources and reduce waste.

Major's Guardian 275® and Auburn® daylighting solutions feature built-in water management systems and high-performance sealants and gasketing for unmatched reliability and long-term performance.

IEQ Credit 8.1 – Daylight 75% of Spaces (1 point)

Achieve a minimum glazing factor of 2% in a minimum of 75% of all occupied areas.

Major's unique and versatile daylighting systems allow designers to successfully add daylight to a high percentage of occupied areas.

ID Credit 1 – Innovation in Design (1–4 points)

Points for exceptional/innovative performance above the requirements set by the LEED® system.

Auburn® Skylights are a versatile design element that offers numerous options for illuminating interior spaces with natural light.

ID Credit 3 – School as a Teaching Tool (1 point)

To integrate the sustainable features of a school facility with the school's educational mission.

Major Industries' daylighting systems give instructors a visually powerful way to teach the environmental and health benefits of natural light.



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