



## GUARDIAN 275<sup>®</sup> TRANSLUCENT SKYLIGHTS & CURTAINWALL

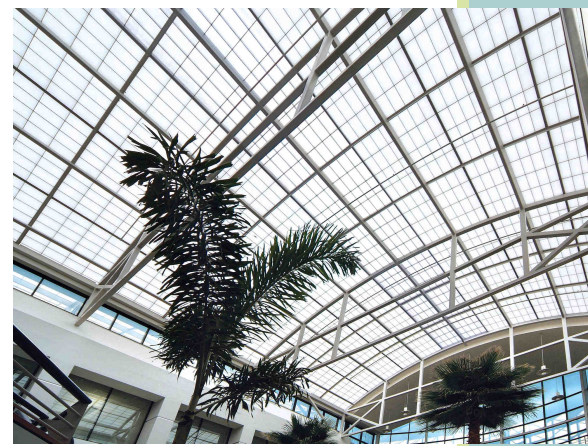
# LEED<sup>®</sup> REFERENCE GUIDE

LEED<sup>®</sup> 2009 (v3) FOR  
NEW CONSTRUCTION &  
MAJOR RENOVATIONS



Optimize energy performance and improve the quality of your indoor environment... without sacrificing strength or beauty. Guardian 275<sup>®</sup> Translucent Daylighting Panels fit every design and budget, with the added advantage of possible LEED<sup>®</sup> credit opportunities (described on reverse). Here are just a few benefits of using Major Industries for your daylighting needs:

- Guardian 275<sup>®</sup> panels provide natural daylighting without glare or “hot-spots” – there’s no need for expensive shading accessories
- Optimization of energy performance and reduced HVAC loads
- Reduced need for “energy-hungry” artificial lighting
- Occupant control of ventilation and line-of-sight vision opportunities when using Guard-Tite<sup>™</sup> window wall systems
- Insulation options for enhanced thermal performance
- Post-consumer and post-industrial recycled content



Incorporating daylighting is an environmentally conscious design solution, but your building’s occupants will also gain the immediate benefits of glare-free 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 the bottom line as well, as studies show that access to daylighting increases productivity in office and manufacturing environments and increases sales in retail settings.

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<sup>®</sup>  
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)

Guardian 275® panels feature exterior fiberglass face sheet pigment and internal insulation batting in the panel structure, offering 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 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, our Guardian 275® Translucent Panel Systems include both post-consumer and post-industrial recycled content (percentages may vary depending on the system requirements).

## 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.

Guardian 275® translucent panel systems are designed to provide quality light management. Light transmission levels and other quality parameters are controlled by color selection and insulation values.

## 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 Prerequisite 2 – Minimum Energy Performance

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

Guardian 275® offers exceptional insulating properties with system U-values as low as 0.13, Solar Heat Gain values as low as 0.05, and UV Transmission less than 1%.

## IEQ Credit 2 – Increased Ventilation (1 point)

Provide additional ventilation and promote occupant comfort.

Major Industries' window wall systems can be configured with operable windows for ventilation and easy occupant use.

## 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.

Guardian 275® translucent panel systems minimize heat loss during winter months and reduce the heat gain from direct sunlight during the summer months, saving energy and stabilizing HVAC loads. Our daylighting systems may assist in improving the building's energy performance.

## 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 lifestyle of existing building stock, conserve resources and reduce waste.

Energy-saving Guardian 275® panel systems are available with industry-long warranties for unmatched reliability and long-term performance.

## IEQ Credit 6.2 – Controllability of Systems (1 point)

Provide individual comfort controls for 50% of building occupants to enable adjustments... Operable windows can be used in lieu of comfort controls...

Major Industries' window wall systems can be configured with operable windows for ventilation and easy occupant use.

## 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.

Existing Guardian 275® panel systems may be renovated by one of the following methods: 1) Refinish exterior panel faces with specially designed surface coating. 2) Reuse existing framing while replacing panels.

## 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.

Guardian 275® Translucent Daylighting Panels allow designers to successfully add daylight to a higher percentage of occupied areas.

## IEQ Credit 8.2 – Views for 90% of Spaces (1 point)

Achieve direct line of sight to the outdoors via vision glazing between 30" and 90" above finish floor for building occupants in 90% of regularly occupied areas.

Major Industries' Guard-Tite™ window wall systems and mixed glazing applications allow unrestricted views to the outside while still retaining the daylighting benefits of strategically placed translucent panels.

## ID Credit 1 – Innovation in Design (1–5 points)

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

Guardian 275® translucent panel systems are a versatile design element that offers soft, diffused, glare-free natural light.



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