

MAJOR INDUSTRIES **AUBURN®**
ENGINEERED SKYLIGHTS



VERSATILE DEPENDABLE WEATHERPROOF COST-EFFECTIVE

www.majorskylights.com

Your One-Stop Source for Daylighting Solutions



Wausau East High School, Wausau, WI - ATS&R

ABOUT MAJOR INDUSTRIES, INC.

Major Industries has enjoyed three decades of engineering and building skylights and translucent curtainwall to fit your needs... and your budget.

We realize that you have a choice when it comes to selecting the right daylighting for your next project – and your decision to use Major Industries is a sign of trust we take seriously. Everyone at Major Industries strives to develop high quality, cost-effective daylighting solutions that let light in and keep water out.

Our stringent standards and advanced technology allow us to offer industry-best warranties and an excellent on-time delivery record. Let our experienced engineers and sales staff show you how our dedication to client satisfaction and product quality make Major Industries the best choice for your daylighting needs.

ON THE COVER: (Main/Top to Bottom)

- Oregon Bank, Oregon, WI - ADCI
- LaPorte Bank, LaPorte, IN - GM Fedorchak & Assoc.
- Army Reserve, Green Bay, WI - RSP Architects
- Wausau East High School, Wausau, WI - ATS&R
- Firekeepers Casino, Battle Creek, MI - Perez Architects

An Introduction to Auburn® Skylights

Auburn® custom-engineered skylights give owners the greatest value possible for their dollar. Auburn® skylights aren't designed to span the largest openings; they're optimized for small and medium projects and are value-engineered to save time, money, and weight in your next daylighting project.

All Auburn® skylights feature high-performance sealants, built-in water management, and time-proven EPDM gasketing to provide the ultimate protection: three-level redundancy to keep water out of your building. In addition, professionally illustrated installation manuals are included with most systems to ensure that your skylight is installed properly, as proper installation is a critical step for dependable long-term performance.

Our Auburn® line of skylights is also available in a wide variety of configurations. Glazing choices include glass, polycarbonate multi-wall and acrylic. We also offer mixed glazing configurations that incorporate glass with our Guardian 275® translucent panels to create a unique, eye-catching and functional design.



Howard Co. Oncology Center, Kokomo, IN - Vintage Archonics



DC Everest School, Schofield, WI - Sommerville Arch. and Eng.

Auburn® Features & Benefits

With its wide range of glazing options and features, Auburn® Engineered skylights give owners flexibility and durability in daylighting. Every Auburn® skylight is the product of hundreds of years of combined daylighting expertise. From quote and specification, to engineering and beyond, you can be confident that Auburn® is the right choice.



Army Reserve, Green Bay, WI - RSP Architects Ltd.

1. **Integral screw races** are standard, providing superior anchorage and uniform load transfer.
2. **Integral guttering** on all structural members allows for water and condensation control.
3. Structural framing members are optimized for **L/175 or L/240 deflection limits** which lowers cost and weight for most skylights.
4. **Universal “slope adapters”** fit all standard rafters, creating precise slope control regardless of product geometry.
5. **Tubular rafters**, which frequently eliminate the need for support tubes, are standard and provide a finished look.
6. All Auburn® skylights are engineered and manufactured using state-of-the-art technology which **shortens overall lead times** and guarantees correct dimensions in a level and plumb environment.

Mahone Middle School, Kenosha, WI - Bray Associates

Your Versatile Daylighting Solution

The Auburn® Advantage

- Cost-minimized through 3D computer modeling and design.
- Our scope includes everything for a successful daylighting project.



- Instant pricing from our SkyPrice™ computer system with guaranteed “budget prices.” Factory pre-assembly reduces lead-time, guarantees precise glass sizing, and provides proof of manufacturing quality.
- Auburn® skylights are manufactured by Major Industries, which has over 10,000 successful installations and three decades of experience.
- Unmatched versatility – Major offers mixed glazing systems including glass/Guardian 275® Translucent Panels or glass/polycarbonate multi-wall.



Improving Your Environment – Inside and Out

Green design is more than a concept – it’s a shift toward utilizing environmentally-conscious design ideas and products.

Auburn® skylights are a cost-effective green design tool that provides occupants with the beauty and benefits of natural light. Utilizing natural light also cuts down on the need for costly artificial lighting during peak energy use hours.

Because of their environmentally-friendly design qualities, Auburn® skylights offer LEED® credit opportunities for both new construction and existing buildings, including possible contribution for features such as recycled content and daylighting.

For more information on green building, and which specific LEED® credits may apply, visit www.majorskylights.com.

AUBURN® ENGINEERED SKYLIGHTS

Choosing the Right Glazing for a Space

Most people believe glass skylights are the best choice for all daylighting applications, but this is not the case. Since daylighting dramatically affects the mood and comfort of building users, it's imperative to plan ahead to ensure you're completely satisfied with your daylighting solution. We recommend you review the following information before selecting any brand of glass skylight.



Transitory/High Traffic Areas

Bank Lobby/Center Mall Court/
Transportation Corridor

Visual impact and unfettered views of the sky make glass skylights a good choice for high-traffic areas. The effect of hot-spots and glare - common with glass systems - is minimized due to the transitory nature of these areas.



Sedentary Activity – Work Spaces

School/Assisted Living Facility/
R&D Facility/Study Area

Translucent materials and reflective glass - or standard glass with mechanical shading or light wells - are best as they reduce glare on computer screens and other mechanical devices.



Multipurpose Areas

Athletic Facility/Community Center/
Church

Translucent glazing or a translucent/glass mixed glazing system works well to add visual interest while controlling light penetration. Standard glass with interior shading also works well.

Technical Information & Performance Testing

Materials/Standard Finishes

1. Framing Materials:

- a. Extruded Aluminum: ASTM B 221, Alloy 6063-T6, 6061-T5, or equivalent. Material alloy, temper and thickness shall be as required for loading, deflection, cross-sectional configuration and finish.

2. Glazing Strips:

- a. Extruded EPDM rubber, ASTM C 864 and C 1115.
- b. Durometer: 70 plus or minus.
3. Color: Black

3. Flashing:

- a. Formed Aluminum Components and Flashing: Alloy 5005-H34 or equivalent.
- b. Minimum Thickness: 0.040 inch.

4. Setting Blocks:

- a. Extruded Type II EPDM.
- b. Hardness, ASTM D 2240, Type A: Durometer 80 plus or minus
- c. Color: Black.

5. Condensation Control System:

- a. Skylight system provided with an integral gutter system on all framing members, including rafters. Mechanically design entire condensation control system to function properly with minimal dependency upon sealants.

6. Glazing Caps:

- a. Extruded aluminum, Alloy 6063-T6.

7. Fasteners:

- a. For Framing Connections: As required by connection. Aluminum: ASTM B 211/Alloy 2024-T4.
- b. Stainless Steel: ASTM A 193, Series B8 300.
- c. Aluminum Rivets: ASTM B 316.
- d. For Exterior Cap Retainers: Stainless steel screws, ASTM A 193, Series B8 300.

7. Sealants:

- a. Nonstructural Flush Glazed Joints and Weather Seal Joints: Silicone sealants. Apply in accordance with sealant manufacturer's instructions.

8. Finishes

- a. Anodized Coating: Architectural Class I clear anodized, Type AA-M10C22A41.
- b. Anodized Coating: Architectural Class II clear anodized, Type AA-M10C22A31.
- c. Anodized Coating: Architectural Class I pigmented anodized, Type AA-M10C22A42/A44.
- d. Pigmented Organic Coating: AAMA 2603.
- e. High-Performance Pigmented Organic Coating: AAMA 2605.



Flint Job Corps, Flint, MI - Kessler Associates Inc.



Performance Testing

1. Air Infiltration:

- a. ASTM E 283: Not to exceed 0.05 cfm/sq ft at a static pressure of 6.24 psf (50 mph).
- b. AAMA/WDMA 1600/I.S. 7, SKG-HC40: Not to exceed 0.10 cfm/sq ft at a static pressure of 6.24 psf (50 mph).

2. Static Water Penetration:

- a. ASTM E 331: No uncontrolled water leakage at a static pressure of 12 psf (69.3 mph) and a minimum water flow rate of 5 gal/hr/sq ft for 15 minutes.
- b. AAMA/WDMA 1600/I.S. 7, SKG-HC40: No uncontrolled water leakage at a static pressure of 6 psf and a minimum water flow rate of 5 gal/hr/sq ft for 15 minutes.

3. Structural Load Test:

- a. ASTM E 330: Maximum allowable deflection of any member shall not exceed L/175.
- b. AAMA/WDMA 1600/I.S. 7, SKG-HC40: Permanent set of any frame member shall not exceed 0.4 percent of its unsupported span at 60 psf positive and negative test pressures.

4. Simulated Field Test:

- a. Test skylights for dynamic water resistance at a static pressure of 12 psf in accordance with AAMA 501.2. No uncontrolled water leakage.

AUBURN®

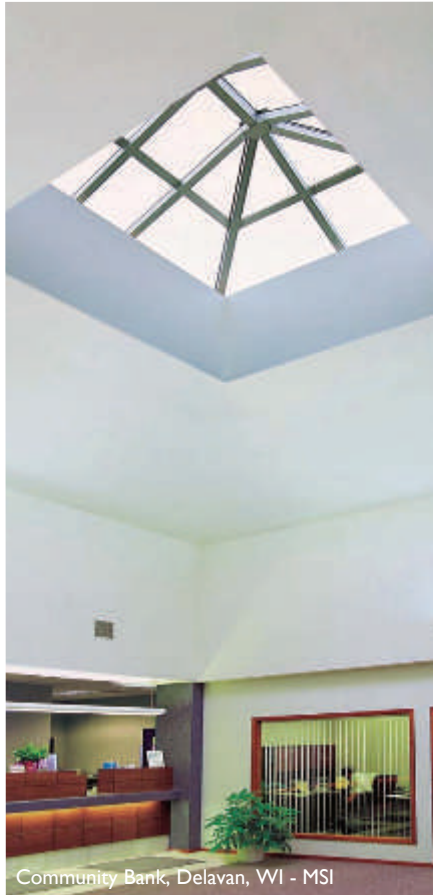
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Contact Major today or visit us online to see our complete line of daylighting solutions.



Community Bank, Delavan, WI - MSI



East High School, LeHigh Acres, FL -
Straughn, Furr, Swilley, Curtis Associates



Wausau East High School, Wausau, WI -
ATS&R



Jodo Shinshu Center, Berkeley, CA -
Hayashida Architects



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Major Industries provides nationwide continuing education to Architects with its certified "box lunch" training sessions.



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