Wausau’s design engineers use state-of-the-art curtainwall and window wall products to bring new life and increased value to old buildings. Improve appearance, energy efficiency, occupant productivity and comfort, minimizing maintenance and extending building life.

Wausau can take the lead in assessment of the existing structure, product selection, customization, applications engineering, and mockup testing - helping ensure safe and hassle-free installation,

ADAPTIVE RE-USE AND RENOVATION WITH ALUMINUM CURTAINWALL

Case Study: 1001 17th Street  Denver, Colorado  Barber Architecture  LEED®-EB

Products:
- Wausau 6250 Series SuperWall® thermal barrier curtainwall
- Linetec 70% PVDF mica paint and matching eco-friendly champagne anodize
- Viracon Radiant Low-E VRE insulating glass

Wausau Window and Wall Systems
Unitized curtainwall is factory-assembled and glazed, then shipped to the job site in custom-built crates, facilitating unloading, hoisting, and distribution on-site. Each unit, typically one lite wide by one floor tall, comes equipped with picking and alignment provisions for safe, efficient handling from the interior or exterior. Jack-bolt anchors (pictured) allow for full three-way adjustment “off the rig,” optimizing hoisting and handling. Edge- and top-of-slab anchor base options are available. Only one unit-to-unit splice, a translucent silicone sheet, needs to be field-sealed. Wausau’s proven guttering design, and membrane interface design expertise, help ensure weatherability under extreme conditions, even in high-rise applications.

**Wausau SuperWall™**

**Setting the standard for over 30 years**

- Interlocking frame design accommodates seismic, live load, and thermal building movements
- Pressure-equalized rain screen design
- Captured, vertical or four-side structural glazed
- Glazing and sealing in a controlled factory environment
- High recycled content aluminum framing
- Thermally-improved utilized walls available.

**Wausau INvision™ UNITIZED Wall**

Factory-glazed for ease of installation

High performance polyamide thermal barrier

- Interlocking frame design accommodates seismic, live load, and thermal building movements
- Pressure-equalized rain screen design
- Captured, vertical or four-side structural glazed
- Glazing and sealing in a controlled factory environment
- High recycled content aluminum framing
- Thermally-improved polyamide thermal barrier optional
- Structural silicone glazing and sealing in a controlled factory environment
- Accepts up to 0.15” vertical movement

**WALL PRODUCTS AVAILABLE WITH CLEAR STORY™**

**8000/8000i-BHM**

**Blast Hazard Mitigating UNITIZED Wall**

Wausau engineering expertise

- Blast performance up to 33 psi peak pressure, 81 psi-msec impulse
- Interlocking frame design accommodates seismic, live load and thermal building movements
- Thermally improved - polyamide thermal barrier optional
- Structural silicone glazing and sealing in a controlled factory environment
- Accepts up to 0.15” vertical movement

**WAUSAU SUPERWALL™**

**Setting the standard for over 30 years**

- Captured or vertical structural glazed
- Full 1/8” extrusion wall thickness
- Splined mullions available for segmented radii
- Screw-spline construction
- Also available: High-performance Wausau HP-Wall

**FINISHES**

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**CHOOSING BETWEEN STICK and UNITIZED CURTAINWALL SYSTEMS**

<table>
<thead>
<tr>
<th>Selection Criteria</th>
<th>Stick Curtainwall</th>
<th>Unitized Curtainwall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Size</td>
<td>Small</td>
<td>Large</td>
</tr>
<tr>
<td>Wall Configuration</td>
<td>Complex</td>
<td>Monolithic</td>
</tr>
<tr>
<td></td>
<td>Very limited</td>
<td>Inter-locking frames take movements</td>
</tr>
<tr>
<td>Joint Pattern</td>
<td>Random</td>
<td>Uniform horizontal sill line</td>
</tr>
<tr>
<td>Glazing</td>
<td>Field</td>
<td>Factory</td>
</tr>
<tr>
<td>Inter-story Movements</td>
<td>Subject to site variables</td>
<td>Controlled factory conditions</td>
</tr>
<tr>
<td>Quality Control</td>
<td>Can be cut-to-fit in the field</td>
<td>Pre-engineered</td>
</tr>
<tr>
<td>Field Labor Cost</td>
<td>High</td>
<td>Minimal field sealing</td>
</tr>
<tr>
<td>Field Labor Duration</td>
<td>Slow</td>
<td>Fast</td>
</tr>
<tr>
<td>Access and Safety</td>
<td>Extérieur access required</td>
<td>Set from the interior Extérieur optional</td>
</tr>
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</table>

**Case Study: Zorinsky Federal Building Omaha, Nebraska**

- Leo A. Daly Architects
- GSA “Demolition Derby” Award
- Linetec eco-friendly clear anodize
- Viracon VE1-85 spectrally-selective Low-E laminated insulating glass

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**www.wausauwindow.com**

- Download detailed specifications, and production and performance information
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**EASE OF INSTALLATION**

**6250-HRX and 7250-i UW UNITIZED FACTORY-GLAZED FOR EASE OF INSTALLATION**

- Interlocking frame design accommodates seismic, live load, and thermal building movements
- Pressure-equalized rain screen design
- Captured, vertical or four-side structural glazed
- Glazing and sealing in a controlled factory environment
- High recycled content aluminum framing
- Thermally-improved unitized walls available.

**FINISHES**

- **8000/8000i-BHM**
  - Blast Hazard Mitigating Unitized Wall
  - Wausau engineering expertise
  - Blast performance up to 33 psi peak pressure, 81 psi-msec impulse
  - Interlocking frame design accommodates seismic, live load and thermal building movements
  - Thermally improved - polyamide thermal barrier optional
  - Structural silicone glazing and sealing in a controlled factory environment
  - Accepts up to 0.24" vertical movement

**WAUSAU SUPERWALL™**

*Setting the standard for over 30 years*

- Captured or vertical structural glazed
- Full 1/8" extrusion wall thickness
- Splayed mullions available for segmented radii
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- Also available: High-performance Wausau HP-Wall

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<td>Low</td>
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<tr>
<td></td>
<td>Many parts to track and assemble</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Once fielding 75 sqft or more per unit</td>
<td></td>
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<tr>
<td>Field Labor Duration</td>
<td>Slow</td>
<td>Fast</td>
</tr>
<tr>
<td></td>
<td>25 sqft per day repeated</td>
<td></td>
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<tr>
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<td>Exterior optional</td>
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Case Study: Zorinsky Federal Building, Omaha, Nebraska [Leo A. Daly Architects, GSA “Demolition Derby” Award]

Case Study: Two Broadway, New York, New York [The Port Authority, unitized window wall, Wausau custom unitized curtainwall, and multiple color and anodizing finishes]


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Choosing efficient windows for a commercial building can be difficult, using published U-Factor, Solar Heat Gain Coefficient, Visible Light Transmittance, and Condensation Resistance Factor, as relative importance depends on site- and building-specific variables. Now available as an online support resource at www.wausauwindow.com, Wausau’s Energy Modeling Tool provides comparative building energy performance - annual energy use, peak demand, carbon emissions, daylight, glare, and condensation - to optimize product selection.

* Developed by the University of Minnesota Center for Sustainable Building Research. Simulations use COMFEN from Lawrence Berkeley National Labs’ Windows and Daylighting Group.

For more on historic buildings, download Wausau’s “Historically-Influenced Window Replacement” brochure.

Our Architectural Support Team is available for design consultation and budget pricing - or find comprehensive technical information at www.wausauwindow.com

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