



WAUSAU

WINDOW AND WALL
SYSTEMS



Third & Harrison . Seattle, WA . Perkins&Will . Photo Credit: Doug Scott



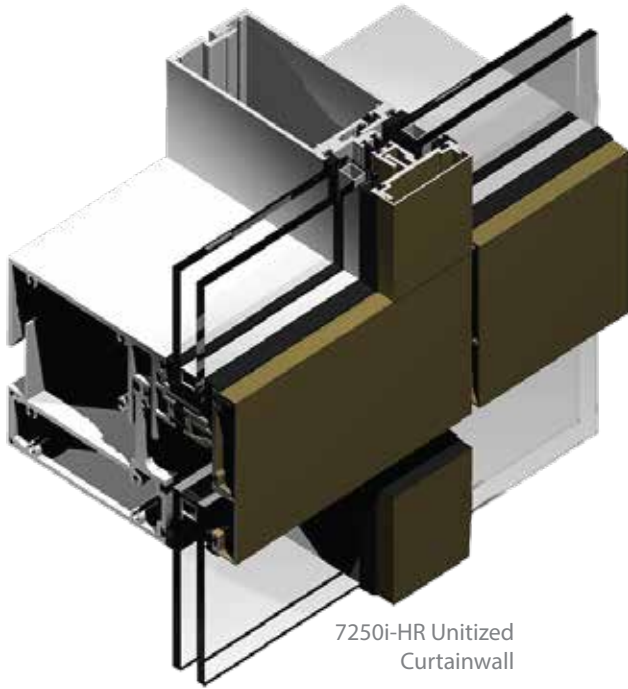
INVISION™ UNITIZED WINDOW WALL AND CURTAINWALL

Wausau Window and Wall Systems® INvision family of unitized curtainwall, window wall and aluminum sun control systems tower above cities all across America for one very simple reason... they have set standards for performance, quality and ease of installation for more than 60 years.

Our designers, engineers and technicians ensure system performance, aesthetics, durability, ease of installation and building comfort.

Wausau supports your sustainable design goals and offers an industry-leading warranty of up to 10 years.





7250i-HR Unitized
Curtainwall

THE INVISION PRODUCT FAMILY

Wausau's INvision family of unitized curtainwall and window wall products offer a choice in system depth, face width and thermal barrier to create the right match for your project.

INvision walls are backed by full AAMA 501 testing for air, water and structural integrity, including racking, jacking and thermal cycling - and an engineering team with more than 1000 years of combined experience. Wausau designs and cuts more than 400 new extrusion profiles annually, to meet project-specific customization needs.



INvision Family Results Summary

Allowable Air	Water	NFRC U-Factor	CRF _f	STC
0.06 cfm/sqft at 6.24 psf	15 psf	0.29 to 0.63 BTU/hr.sqft.*F	73 to 77	31 to 39 OITC 25 to 33

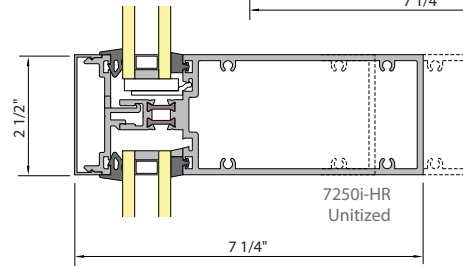
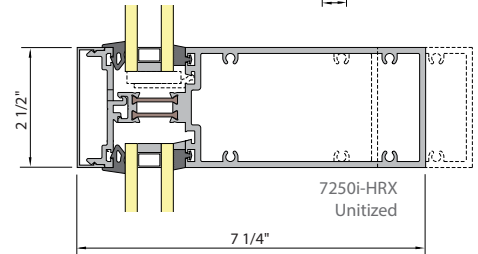
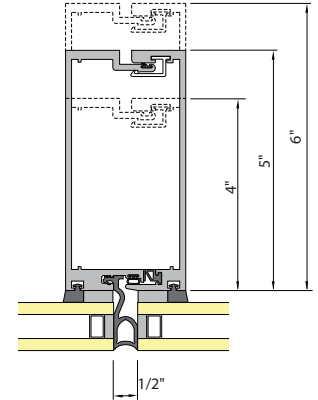
Test results may vary.

www.wausauwindow.com
Download guide specifications, details
and performance information

6250i-, 7250i-, and 8250i-HR 6250i-, 7250i-, and 8250i-HRX Unitized Window Wall and Curtainwall

Factory-glazed wall systems with 2-1/2" face width and polyamide thermal barrier for superior energy efficiency and condensation resistance

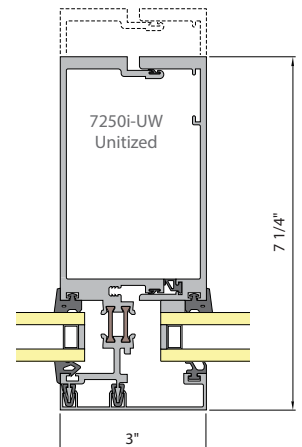
- 6-1/4", 7-1/4" and 8-1/4" frame depth with polyamide thermal barrier
- Transitions seamlessly from curtainwall to window wall
- Pressure-equalized rain-screen design
- 15 psf static and dynamic water resistance
- Captured, two- and four-side structural silicone glazing available



7250-, 7250i, 8250i- and 9750i-UW Unitized Window Wall and Curtainwall

3" face width factory-glazed wall designed for high spans, seismic movement and energy efficiency

- 7-1/4", 8-1/4" and 9-3/4" frame depth
- Engineered to meet typical institutional buildings' span and wind load requirements
- Interlocking frame design and 3" face accommodates seismic, live load and thermal movements
- Two-level thermal barrier frames (i-UW) or thermally-improved with polyamide clips (-UW)
- Pressure-equalized rain-screen design
- Captured, two- and four-side structural silicone glazing available



UNITIZED CURTAINWALL

FACTORY QUALITY CONTROL - EASE OF INSTALLATION

Unitized curtainwall is factory-assembled and factory-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.

Unitized curtainwall “hangs” from the floor above, and expands in the opposite direction of interior finishes. Challenging interfaces at door openings and balcony slabs are created. Shear walls and changes in sill height can be complex. Unitized curtainwall is best-installed in a sequential manner from the bottom of the wall upwards.

CHOOSING BETWEEN STICK and UNITIZED CURTAINWALL SYSTEMS		
Selection Criteria	Stick Curtainwall	Unitized Curtainwall
Project size	Small	Large
Wall configuration	Complex <small>Many changes in plane, e.g. soffits, corners</small>	Monolithic <small>Large expanses of flat wall</small>
Joint pattern	Random	Uniform horizontal sill line
Glazing	Field	Factory
Interstory movements	Very limited	Inter-locking frames take movements
Quality control	Subject to site variables <small>Both environment and equipment</small>	Controlled in the factory
Modification	Can be cut-to-fit in the field	Pre-engineered
Sealing	Subject to site variables	Minimal field sealing
Field labor cost	High <small>Many parts to track and assemble</small>	Low <small>Often setting 75 sqft or more per unit</small>
Field labor duration	Slow	Fast <small>Up to 50 units per day reported</small>
Access and safety	Exterior access required	Set from the interior <small>Exterior optional</small>



Three-way adjustable “jack bolt” anchor

Edge-of-slab and top-of-slab anchor base options work in tandem with cast-in-place Hilti® embeds to speed layout. Jack-bolt anchors (pictured) allow for full three-way adjustment “off the rig,” optimizing hoisting and handling.

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.



UNITIZED WINDOW WALL

FLEXIBLE SEQUENCE and SEAMLESS INTERFACES

Window wall “rests” on the floor below, and expands in the same direction as interior finishes, for easy interfaces at door openings and balcony slabs. Shear walls and changes in sill height are straightforward. Window wall can be installed in any sequence, and can be designed to look as much - or as little - like curtainwall as desired. Performance criteria are similar.

For window wall made from curtainwall systems, the Wausau INvision product family provides a proven chassis with the breadth of options necessary to meet the needs of design professionals nationwide. Captured, two-sided or four-sided structural silicone glazing is available. Fixed window wall is available with Wausau 4250-Z Series zero-sightline operable vent inerts, in project-out (awning), or out-swing casement styles, with optional “ADA” accessible hardware and operation.

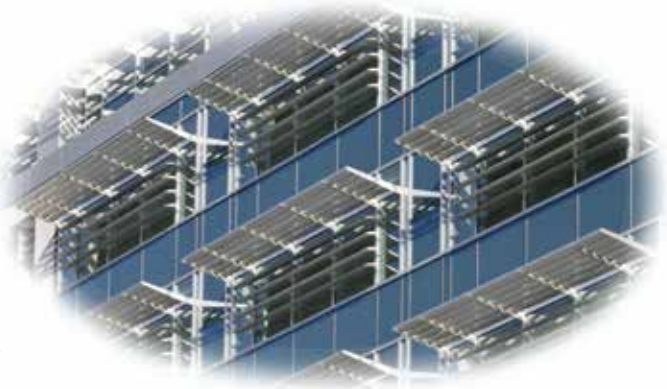
Receptors are vital components of window wall systems for movement accommodation, drainage, membrane interface and ease of installation. The INvision product family draws on a library of internally consistent and interchangeable high-performance head, sill and jamb receptors. Anchors, sun shades and trim choices round out the accessory offering.

2400 Market Street . Philadelphia, PA . Gensler



ClearStory™ Exterior Sun Shades

- Control solar heat gain and harvest natural daylight to meet sustainable design goals
- Increase Projection Factor and decrease solar cut-off angles
- A variety of pre-engineered configurations - Extruded blades, perforated sheet, “catwalk” grids or solid shading
- Modular design and integral alignment features for ease of installation
- Thermally improved mullion attachments
- Laser- or water-jet, precision-cut, factory-attached end caps
- Vertical sun shades available for east and west facades



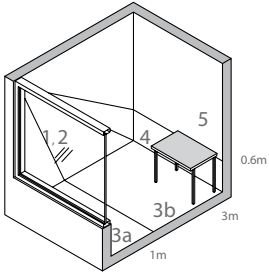
ClearStory™ Interior Light Shelves

- Redirect south daylight off ceiling surfaces so light penetrates farther
- Control glare at high solar altitudes
- Diffusely reflective upper surfaces maximize light - Lower surfaces match decor
- A variety of pre-engineered configurations - Flush, articulated, aerofoil and contoured
- Light shelves can work in combination with sun shades to maximize daylight harvest
- Depth up to 30” to match transom height
- Optional easy-to-clean removable infill panels
- Not intended as a shelf or step



INvision™ 8000- and 8000i-BHM Unitized Blast Window Wall and Curtainwall

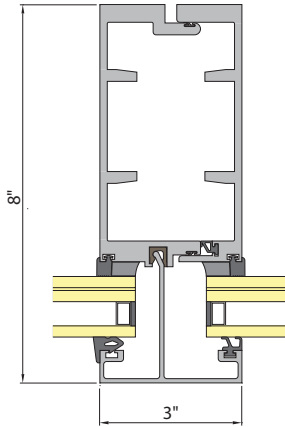
With years of experience on dozens of major blast projects nationwide, Wausau can interpret the lexicon of blast hazard mitigation, and design for safety and cost-effectiveness. Blast hardened re-cladding of an existing building, hazard-mitigating replacement windows, or a modern all-glass facade for a new building, Wausau has the technical expertise to interface with the design team from inception to timely completion.



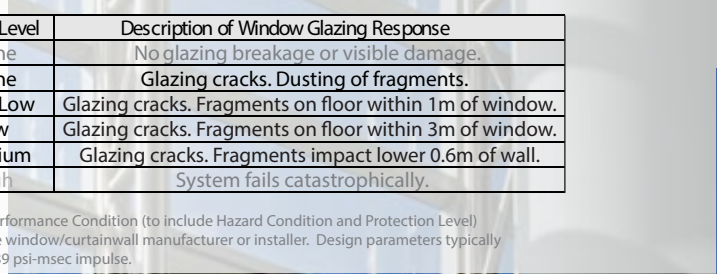
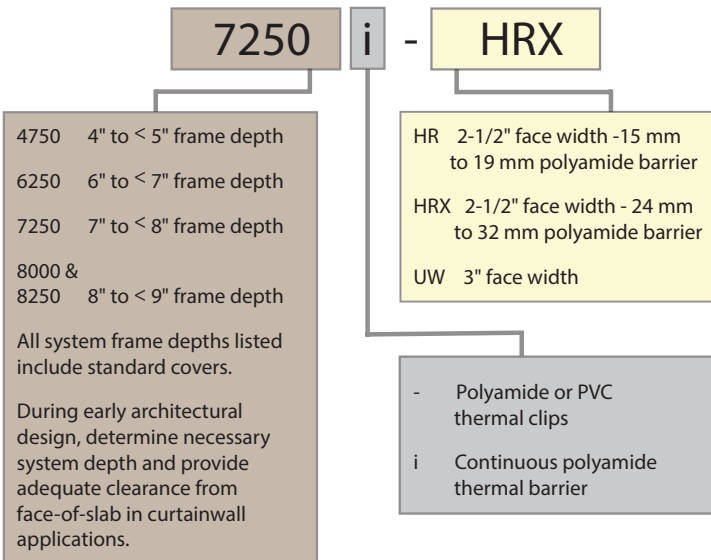
Performance Condition	Protection Level	Hazard Level	Description of Window Glazing Response
1	Safe	None	No glazing breakage or visible damage.
2	Very High	None	Glazing cracks. Dusting of fragments.
3a	High	Very Low	Glazing cracks. Fragments on floor within 1m of window.
3b	High	Low	Glazing cracks. Fragments on floor within 3m of window.
4	Medium	Medium	Glazing cracks. Fragments impact lower 0.6m of wall.
5	Low	High	System fails catastrophically.

IMPORTANT NOTE: Determination of peak pressure, impulse, and Performance Condition (to include Hazard Condition and Protection Level) is the responsibility of the Owner's security/blast consultant; not the window/curtainwall manufacturer or installer. Design parameters typically range from 4 psi peak and 28 psi-msec impulse, to 10 psi peak and 89 psi-msec impulse.

- Open arena blast-tested
- Interlocking frame design accommodates seismic, live load and thermal movements
- Thermally improved; polyamide thermal barrier optional
- Structural silicone glazing and sealing in a controlled factory environment
- Exterior sun shades and interior light shelves

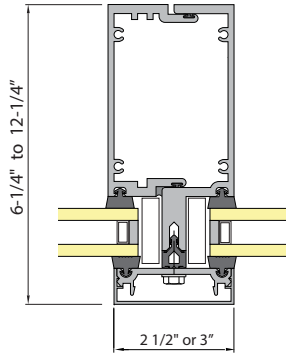


Series Numbering Guide INvision™ Unitized Wall Systems



Project not right for unitized curtainwall?

SuperWall™ Field-Glazed Window Wall and Curtainwall



- Multiple frame depths available - Dual-color frame finishes
- Captured or two-side structural glazed
- Screw-spline construction
- 3/8" thermal separation

Test results may vary.

Allowable Air	Water	NFRC U-Factor	CRF _f	STC
0.06 cfm/sqft at 6.24 psf	15 psf	0.34 to 0.57 BTU/hr.sqft.°F	67 to 79	31 to 34 25 to 29 OITC

University of Washington Nanotechnology . Seattle, WA . ZGF Architects . Aaron Leitz Photography



INvision™ unitized wall may be finished in a color palette of more than 30,000 choices, including new **copper anodize**. Liquid or powder paint coatings are applied using VOC-free processes. The frosty, matte finish of eco-friendly anodize is ideal for Wausau's high recycled content aluminum framing.



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