



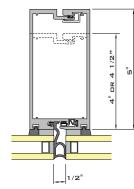


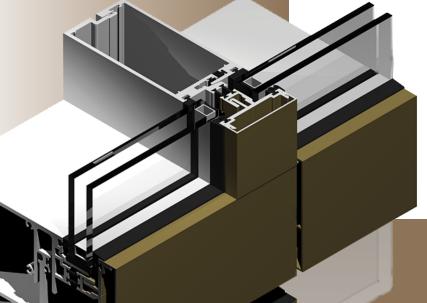
OFFERING A CHOICE IN SYSTEM DEPTH, FACE WIDTH AND THERMAL BARRIER TO GREATE THE RIGHT MATCH FOR YOUR PROJECT FROM THE WAUSAU INVISIONTM FAMILY OF UNITIZED CURTAINWALL AND WINDOW WALL PRODUCTS

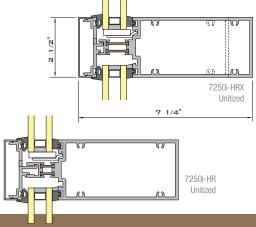
6250i-HR 7250i-HR 6250i-HRX 7250i-HRX

UNITIZED WINDOW WALL AND CURTAINWALL WITH 2-1/2" FACE WIDTH AND POLYAMIDE THERMAL BARRIER FOR SUPERIOR ENERGY EFFICIENCY AND CONDENSATION RESISTANCE

- 6-1/4", 6-1/2" and 7-1/4" 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
- Low U-Factors allow broad expanses of vision glass to meet Model Energy Codes



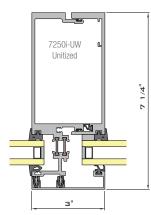




7250-UW 7250i-UW

3" FACE WIDTH UNITIZED WALL DESIGNED FOR HIGH SPANS, SEISMIC MOVEMENT AND ENERGY EFFICIENCY

- 7-1/4" 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 (7250i-UW) or thermally-improved with polyamide clips (7250-UW)
- Pressure-equalized rain screen design



CMA-LISTED - BACKED BY FULL AAMA 501
TESTING FOR AIR, WATER AND STRUCTURAL

INVISION WALLS ARE NFRC-TESTED AND

7250i-HR Unitized

INTEGRITY, INCLUDING RACKING, JACKING AND
THERMAL CYCLING

INvision Unitized Curtainwall

Test results may vary.

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	32 to 34 OITC 26	

CLEAR STORY

SUN SHADES AND LIGHT SHELVES

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





INTERIOR LIGHT SHELVES

- Redirect south daylight off ceiling surfaces so light penetrates farther
- Control glare at high solar altitudes
- Diffuse, 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 for maximum daylight harvest
- Shelf depth up to 30" to match transom height
- Optional easy-to-clean removable infill panels
- Not intended as a shelf or step

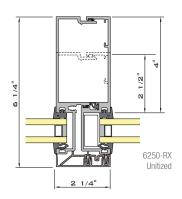
Wausau offers architects, engineers and designers
Revit® 3D models and 2D drawings of the most popular
window and curtainwall systems through AutoDesk® SEEk



4750-RX 6250-RX

ECONOMICAL FACTORY-GLAZED UNITIZED WINDOW WALL THERMALLY-IMPROVED - 2-1/4" FACE WIDTH

- 4-3/4" or 6-1/4" frame depth
- Thermally improved
- · Captured or vertical structural glazed
- Two-color finish option
- Pressure-equalized rain screen design
- Factory- or field-glazed
- Head, sill and jamb receptors available for ease of installation



Allowable Air	Water	NFRC U-Factor	CRF _f	STC
0.06 cfm/sqft at 6.24 psf	15 psf	0.39 to 0.64 BTU/hr.sqft.°F	46 to 60	31 to 34 26 to 29 OITC

UNITIZED CURTAINWALL

EASE OF INSTALLATION - FACTORY QUALITY CONTROL

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

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. Units are always "hung" from the floor above the vision area.

Edge-of-slab and top-of-slab anchor base options work in tandem with cast-in-place Halfen® 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.



www.wausauwindow.com to download details, specifications, and product performance information - and -

www.nfrc.org to see a comprehensive list of Wausau's NHRC-certified thermal performance data



OPTIONS AND ACCESSORIES FOR DESIGN, FUNCTIONALITY OR SUSTAINABILITY

- Factory installation of terra cotta infill available (pictured)
- Zero sightline, projected insert vents are tested to meet ANSI A117.1 ADA accessibility requirements
- SEALTM interior accessory windows can be added for acoustic performance, between-glass blinds or behavioral care upgrade in hospitals (pictured)
- -HRX designs accommodate triple insulating glass to meet stringent sustainable design goals





8000-BHM 8000i-BHM

OPEN ARENA-TESTED BLAST HAZARD-MITIGATING
UNITIZED CURTAINWALL AND WINDOW WALL

- 6", 8" and 8-1/4" frame depth with or without polyamide thermal barrier Dual-color frame finishes
- Various 8000-BHM and 8000i-BHM configurations achieve ASTM F 1642 "Minimal Hazard" or "No Hazard" rating at 6 psi peak, 42 psi-msec impulse
- ISC Performance Conditions 1, 2, 3a or 3b, tested at 10 psi peak, 89 psi-msec impulse

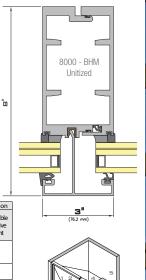
DDD - UFC Department of Defense Unified Facilities Criteria UFC 4-010-01 (2012) "DoD Minimum Anti-Terrorism Standards for Buildings"

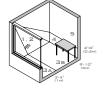
	Standoff Distance Requirements - New Construction				
Distance To	Building Category	Applicable Level of Protection	Conventional Construction Standoff Distance	Minimum Standoff Distance	Applicable Explosive Weight
Controlled perimeters or parking and roadways without a controlled perimeter	Billeting and high occupancy family housing	Low	26 to 420 ft (8 to 128 m)	18 ft (5.5 m)	I
	Primary gathering building	Low	26 to 420 ft (8 to 128 m)	18 ft (5.5 m)	1
	Inhabited building	Very Low	20 to 361 ft (6 to 110 m)	18 ft (5.5 m)	1
Parking and roadways within a controlled perimeter or trash containers	Billeting and high occupancy family housing	Low	13 to 167 ft (4 to 51 m)	12 ft (3.6 m)	II
	Primary gathering building	Low	13 to 167 ft (4 to 51 m)	12 ft (3.6 m)	П
	Inhabited building	Very Low	13 to 167 ft (4 to 51 m)	12 ft (3.6 m)	П

Level of Protection	Potential Glazing Hazards (Glazing hazard levels from ASTM F 1642)		
Below AT Standards	Catastrophic failure. Lethal potential. "High" hazard rating.		
Very Low	Glazing fractures and is propelled into the building. Serious injury potential. "Low" hazard rating.		
Low	Glazing fractures; may leave frame at reduced velocity. Does not present a significant injury hazard. "Very low" hazard rating.		
Medium	Glazing fractures; glass dust and slivers. "Minimal" hazard rating.		
Hiah	Glazing does not break. No hazard.		

IMPORTANT NOTES. Stand-off distance requirements vary widely with wall construction type and whether waits are load bearing. Charge Weight 1 gif inmy control window dealing, depending on corresponding stand-off distances and distance inscitance.

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GSA-ISC General Services Administration Inter-Agency Security Committee "Security Design Criteria for New Federal Office Buildings or Major Modernizations"

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 3-4" (1m) of window	
3b	High	Low	Glazing cracks. Fragmentson floor within 10'-9"(3m) of window	
4	Medium	Medium	Glazing cracks. Fragments impact lower 2'-0" (0.6m) of wall	
5	Low	High	System fails catastrophically	

IMPORTANT NOTES: Determination of peak pressure, imputes and Performance Condition for include Nazard Condition and Protection Levels is the responsibility of which security plast consultant, not the window/curtainvail manufacturer or installer. Design parameters typically range from 4 psi peak and 29 pel-missic imputes. to 10 psi peak and 59 pel-missic imputes.

SERIES NUMBERING GUIDE

INVISIONTM UNITIZED WALL SYSTEMS

7250 i - HRX

4750 4" to < 5" frame depth

6000 &

6250 6" to < 7" frame depth

7250 7" to < 8" frame depth

8000 &

8250 8" to < 9" frame depth

All system frame depths listed include standard covers.

During early architectural design, determine necessary system depth and provide adequate clearance from face-of-slab in curtainwall applications. RX 2-1/4" face width -Thermally improved only

HR 2-1/2" face width -15 mm to 19 mm polyamide barrier

HRX 2-1/2" face width - 24 mm to 32 mm polyamide barrier

UW 3" face width

- Polyamide or PVC thermal clips
- Continuous polyamide thermal barrier



CH2MHill

Camp Springs, Maryland

BRAC Air National Guard

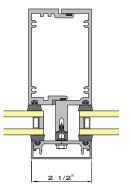
WAUSAU'S ENERGY MODELING TOOL

Choosing efficient glazed wall 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 Laboratory's Windows and Daylighting Group.

PROJECT NOT RIGHT FOR UNITIZED WALL ...?



WAUSAU SUPERWALL™

SETTING THE STANDARD FOR MORE THAN 30 YEARS

- 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



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.





