



WAUSAU

WINDOW AND WALL SYSTEMS

HURRICANE IMPACT FIXED AND OPERABLE WINDOW SYSTEMS

Whether the design goal is basic code compliance or a higher level of protection for property and occupants, Wausau's hurricane impact windows answer the call.

Wausau INvent™ 3250i- and 4250i-HP-XLT products are "large missile" tested to comply with requirements both below and above 30 feet, without non-uniformity in glass appearance that can result from the use of different "small missile" glass. "D" missile and "E" missile impacts are followed by cyclical pressure testing.

Many Wausau window products carry Miami-Dade Notices of Acceptance (NOAs), Florida Product Approvals (FPAs), and/or Texas Department of Insurance (TDI) listings.



Gateway Medical Center Gould Turner Group Photo ©BE&K Building Group



FEATURES AND PERFORMANCE

Fixed and Operable Windows

- 3-7/8" (3250i) and 4-7/8" (4250i) frame depth
- 24 mm XLT polyamide thermal barrier
- AAMA AW-100 Architectural Performance Class
- Fixed, project-in or project-out casement, project-out awning or project-in hopper
- 0.125" extrusion wall thickness
- Conventional hardware or multi-lock option
- Large "D" missile impact tested for basic protection in Wind Zones 1-4
- "E" missile impact tested for essential facilities' enhanced protection in Wind Zones 3-4
- Tested with receptors and steel strap anchors to address varying substrates



BETWEEN-GLASS BLINDS

Low maintenance and glare control

- Available with 1" or 5/8" aluminum slats
- Occupant privacy and glare-reduction tilt control with slip-clutch feature
- Concealed raise-lower cords for uniform exterior appearance
- Hinged interior doors for custodial access
- Triple-glazed options for control of solar heat gain

WINDOW HARDWARE

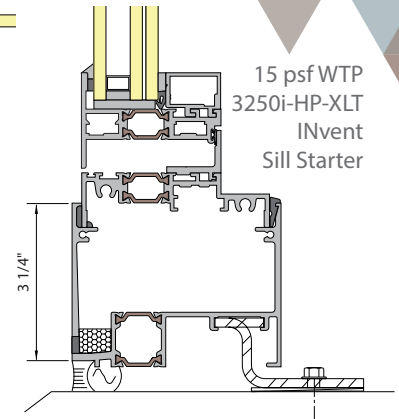
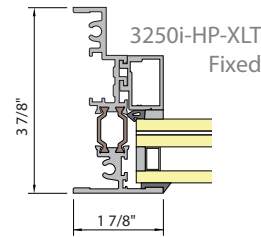
For Occupant or Custodial Operation - Durable and Attractive Designs



Allowable Air	Water	NFRC U-Factor	CRF _f	STC
0.10 cfm/sqft at 6.24 psf	15 psf	0.34 to 0.64 BTU/hr.sqft.°F	46 to 65	31 to 42

Test results may vary - Thermal and acoustical performance tested with non-hurricane-impact resistant glass

TEST SUMMARY		
WAUSAU INvent™ 3250i- and 4250i-HP-XLT Series Hurricane Windows		
CONFIGURATION or OPTION	"D" MISSILE TESTED Miami-Dade TAS Protocols	"E" MISSILE TESTED Miami-Dade TAS Protocols
Risk Category II Buildings	Wind Zones 1, 2, 3 and 4*	Not required
Risk Category III and IV Buildings	Wind Zones 1 and 2	Wind Zones 3 and 4
Design Wind Pressure	80 psf (ASD)	100 psf (ASD)
Glass and Glazing Types 1/4" fully tempered (FT) or heat strengthened (HS) exterior	G1 or G2: Wet-glazed 1-5/16" IG: 1/4" FT or HS exterior 1/2" air space 9/16" Vanceva® laminated	G5 or G6: Wet-glazed 1-7/16" IG: 1/4" FT or HS exterior 1/2" air space 11/16" Vanceva® laminated
	G3 or G4: Dry-glazed 1-5/16" IG: 1/4" FT or HS exterior 1/2" air space 9/16" SentryGlas® laminated	G7 or G8: Dry-glazed 1-7/16" IG: 1/4" FT or HS exterior 1/2" air space 11/16" SentryGlas® laminated
	Triple-glazed G1 or G2 exterior 5/8" or 1" blinds Interior access door	Triple-glazed G5 or G6 exterior 5/8" or 1" blinds Interior access door
	Triple-glazed G3 or G4 exterior 5/8" or 1" blinds Interior access door	Triple-glazed G7 or G8 exterior 5/8" or 1" blinds Interior access door
Overall Window System		
Frame Depth	3-7/8" or 4-7/8"	3-7/8" or 4-7/8"
Meeting Rails	2-7/8"	2-7/8"
Self-Stacking Mullions	Available	Available
Project-Out Casement Vents**		
Maximum Vent Size (W x H)	36" x 60"	36" x 60"
Locks	Linear operation multi-lock or cam handles	Linear operation multi-lock or cam handles
Hinges	Butt hinges or stainless steel (SS) four-bar friction hinges	Butt hinges or SS four-bar friction hinges
High Velocity Hurricane Zone (HVHZ) Certifications	Contact Wausau for current status	Contact Wausau for current status
Project-Out Awning Vents**		
Maximum Vent Size (W x H)	60" x 36"	60" x 36"
Maximum Fixed-over-Awning (punched opening only)	60" x 84"	60" x 84"
Locks	Cam handles	Cam handles
Hinges	SS four-bar friction hinges	SS four-bar friction hinges
High Velocity Hurricane Zone (HVHZ) Certifications	Contact Wausau for current status	Contact Wausau for current status
Project-In Casement Vents		
Maximum Vent Size (W x H)	36" x 60"	36" x 60"
Locks	Linear or Euro multi-lock or cam handles	Linear or Euro multi-lock or cam handles
Hinges	Butt hinges or SS four-bar friction hinges	Butt hinges or SS four-bar friction hinges
High Velocity Hurricane Zone (HVHZ) Certifications	Contact Wausau for current status	Contact Wausau for current status
Project-In Hopper Vents		
Maximum Vent Size (W x H)	60" x 36"	Not available
Maximum Fixed-over-Hopper (punched opening only)	60" x 84"	
Locks	Cam handles	
Hinges	SS four-bar friction hinges	
High Velocity Hurricane Zone (HVHZ) Certifications	Contact Wausau for current status	
Fixed Windows		
Maximum Fixed Lite Size (W x H) also see Table below	45-3/8" x 69-3/8" Glass Size 48" x 72" Window Dimension	45-3/8" x 69-3/8" Glass Size 48" x 72" Window Dimension
Interior or Exterior Glazing	Interior or Exterior	Interior or Exterior
High Velocity Hurricane Zone (HVHZ) Certifications	Contact Wausau for current status	Contact Wausau for current status
Anchors and Accessories for all window types		
Receptors and Starters	Receptors anchored to substrate or with steel strap anchors	Receptors with steel strap anchors
Anchors	Steel strap anchors	Steel strap anchors
Screens	Wickets or hinged screens reqd.	Wickets or hinged screens reqd.
Between-Glass Blinds	5/8" or 1" blinds	5/8" or 1" blinds
*Risk Category II buildings require only C missile protection in Wind Zones 1 and 2. **Roto operators, grid muntins and beveled glazing rebates are not available on INvent- HP-XLT Series windows		



DETAILS



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STACK MULLIONS and INTEGRAL IMPOSTS										
Length	DESIGN LOAD CAPACITY (ASD psf)									
	Imposts	Stacks	Imposts	Stacks	Imposts	Stacks	Imposts	Stacks	Imposts	Stacks
54	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
66	100.0	100.0	100.0	100.0	100.0	100.0				
72	100.0	100.0	96.3	100.0	87.7	92.1				
Width	36		42		48		54		60	