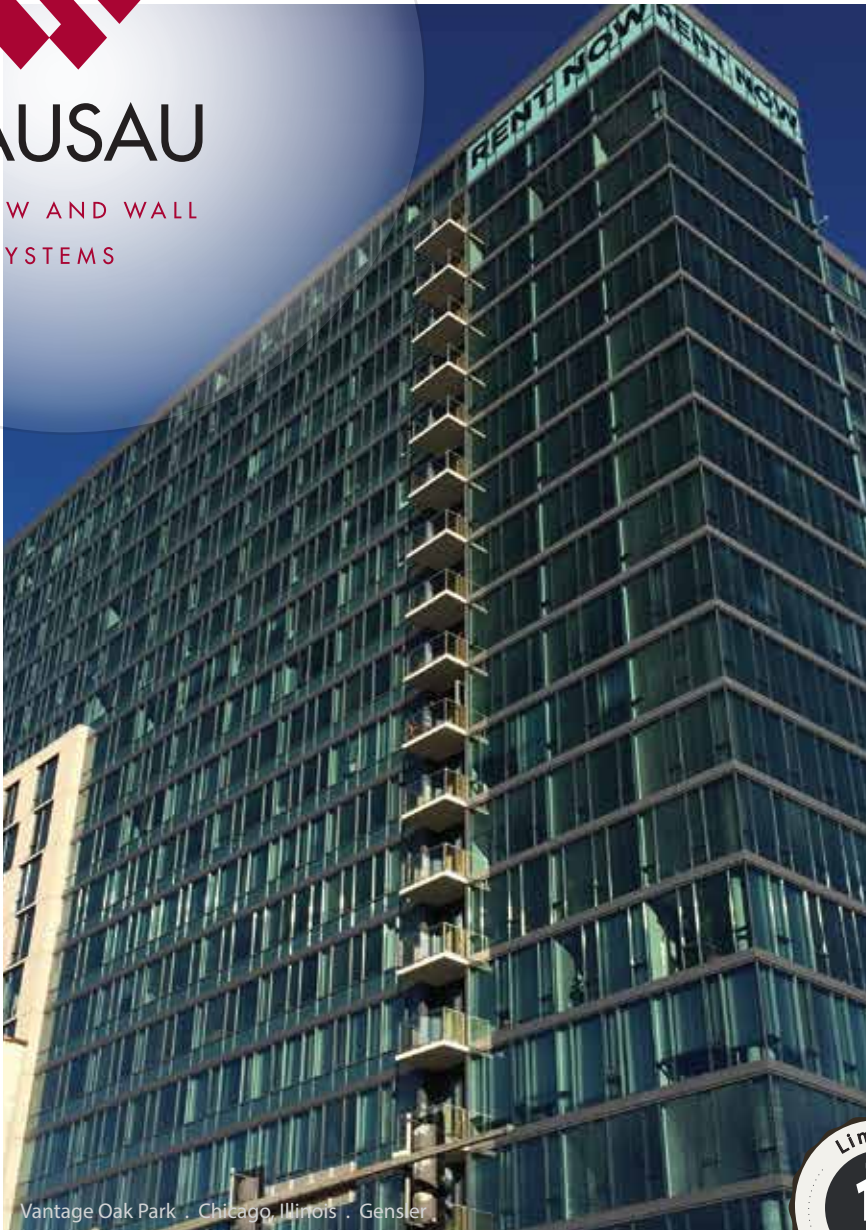




# WAUSAU

WINDOW AND WALL  
SYSTEMS



Vantage Oak Park . Chicago, Illinois . Gensler



## INVISION™ 5500i-SG UNITIZED WINDOW WALL

Leverage the unique characteristics of window wall for your next mid-rise or high-rise residential, mixed-use or dormitory project.

Wausau's INvision™ 5500i-SG "can" system is an easy-to-install unitized solution for factory silicone-glazed, modern aesthetics.

Wausau's experienced technical design team optimizes structural integrity, weather-ability, energy efficiency and noise attenuation, to deliver time-tested products backed by a well-deserved 65-year reputation for reliability and workmanship.

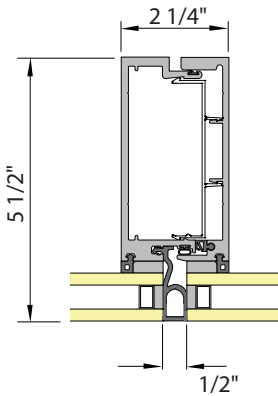
[www.wausauwindow.com](http://www.wausauwindow.com)

# INVISION™ 5500i-SG

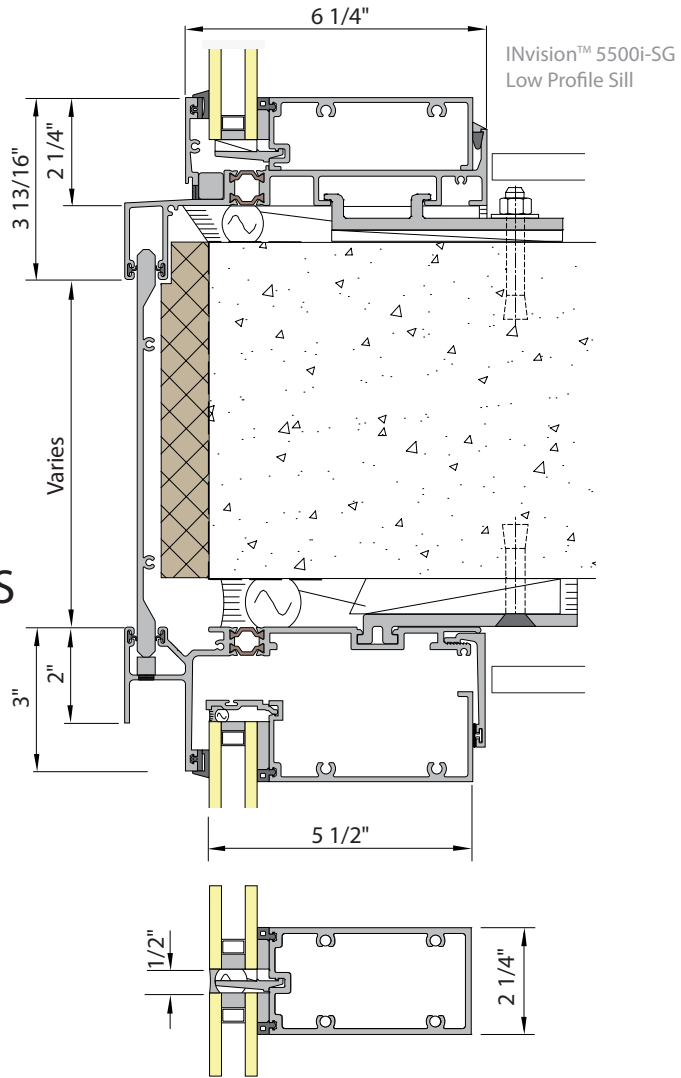
## THERMAL UNITIZED WINDOW WALL

### FEATURES

- ▶ 2-1/4" structural silicone-glazed (SSG) mullions and intermediate horizontal framing members
- ▶ 18 mm wide polyamide nylon thermal strut for energy efficiency and condensation resistance
- ▶ Easy-to-install captured head and sill "can" receptors - Flush SSG sill and jamb receptors are available
- ▶ No exterior unit wet sealing required; pressure-equalized, rain screen design
- ▶ Less than 0.06 cfm/sqft air infiltration at 6.24 psf
- ▶ 15 psf water test pressure; static and dynamic
- ▶ Full AAMA 501 test protocol including interstory vertical and horizontal movement; thermal cycling



### DETAILS



### THERMAL and ACOUSTIC PERFORMANCE

Thermal Performance Summary	NFRC U-Factor BTU/hr.ft <sup>2</sup> .°F	NFRC Solar Heat Gain Coefficient	CRF	STC OITC
	Modeled Range	SHGC Range		
INvision 5500i-SG Structural Silicone Glazed (Standard Sill Can)	0.34 to 0.56	0.33 to 0.62	81 Frame 77 Glass	33 to 36 STC
INvision 5500i-SG Structural Silicone Glazed (Low Profile Sill Can)	0.32 to 0.54	0.33 to 0.63	81 Frame 75 Glass	
INvision 5500i-SG Structural Silicone Glazed (Flush SSG Sill Can)	0.33 to 0.55	0.33 to 0.62	82 Frame 77 Glass	28 to 31 OITC
Modeled NFRC performance data is based on various clear substrate glass makeups. CRF test data is based on Guardian 1" overall SNX-62/27 insulating glass (low-e on surface #2), 90% argon fill with 1/2" Tri-Seal™ spacer. Contact Wausau for project-specific thermal modeling to supplement the estimates above.				

Test results can vary

## SLAB COVERS DESIGN FLEXIBILITY

Window wall slab covers may be fabricated from aluminum extrusions, formed aluminum sheet, rain screen metal panels, terra cotta or even glass.

While sometimes post-installed from the building exterior, slab covers are most-often erected from the building interior, in sequence, floor-by floor. Window wall head and sill receptor systems are typically sealed at the interior and exterior. This creates four continuous lines of perimeter sealant at each floor slab. In most cases these sealant joints are concealed, and are not subject to severe weathering or wear, extending the sealant's service life.

Wausau designs and cuts more than 400 new extrusion profiles annually, to meet **project-specific customization** needs. The Wausau engineering team brings 1000 years of combined experience to bear on unique design challenges.

INvision™ 5500i-SG  
Performance Mockup



## FINISH OPTIONS ANODIC OR ORGANIC

**Custom colors** are no problem, whether your project is large or small. Apogee sibling business unit Linetec's in-house blending capabilities and Hunter Labs spectrophotometer help Wausau respond to most sample requests in days.

Linetec's services include organic paint and anodizing for extrusions, aluminum windows, curtainwall, storefront, entrance systems, and other components.

Beyond finishing, Linetec offers thermal improvement, including Technoform polyamide thermal strut insertion, allowing for different finishes interior and exterior.

## WAUSAU CLEARSTORY™ SUN SHADES

Control solar heat gain to meet **sustainable design** goals, increasing Projection Factor and decreasing solar cut-off angles while adding visual interest.

Wausau offers a variety of pre-engineered configurations - extended snap-on covers, extruded blades, perforated sheet, "catwalk" grids or solid shading. Modular design and integral alignment features facilitate ease of installation. Vertical sun shades are available for East and West facades.

Optima Camelview Scottsdale . David C. Hovey



# INSERT VENTS FOR NATURAL VENTILATION

Operable windows can be part of an effective natural ventilation strategy. Wausau's structurally glazed, **4250-Z Zero-Sightline Series**, operable window products provide "no-sag" performance even for oversized vents.

Awning vents and out-swing casement windows should be used on upper floors of high-rise buildings only in conjunction with robust limited opening devices.



4250-Z Zero Sightline  
Awning Vent

## ADA ACCESSIBILITY FOR OPERABLE WINDOWS



Help ensure that fresh air and a connection with the outdoors are made accessible to people with physical disabilities, by specifying windows and window hardware meeting the operating force and limited motion requirements of ICC/ANSI A117.1. Wausau's accessible projected windows are **laboratory-proven capable** of operating with one hand using a force of five pounds or less, to unlock, open, close, and lock, without tight grasping, pinching or twisting of the wrist, when tested in accordance with AAMA 513, "Standard Laboratory Test Method for Determination of Forces and Motions Required to Activate Operable Parts of Windows and Doors in Accessible Spaces."

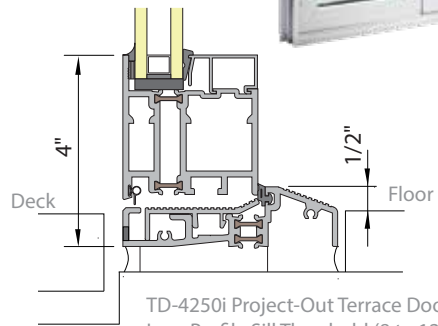
## TERRACE DOORS INTEGRATED SOLUTIONS

Wausau's **TD-4250i Series Terrace Doors** are side-hinged, and designed for high-rise air, water and structural performance. Single leaf and French astragal options are available, all meeting AAMA AW Performance Class requirements. Improved-access sill threshold detailing complies with ANSI A117.1 and the Fair Housing Act.

Door closers are always a good idea on swinging doors, in case of unexpected wind gusts on doors left unlocked or unlatched in severe weather events.

With properly designed building conditions and correct installation, improved access sill component profiles will meet ADA accessibility criteria per Fair Housing Act Regulations, 24 CFR 100.205 Chapter 4, "Thresholds and Accessibility Routes at Exterior Doors." However, Wausau makes no claim relative to ANSI A117.1 compliance of the total door installation, including but not limited to, clear width, hardware, approach area, reach, force(s), motion, etc. It is the sole responsibility of the building's Architect or Engineer of Record to verify compliance of the total installation. Wausau takes no responsibility for acceptance by authorities having jurisdiction.

TD-4250i Project-In  
Terrace Door



TD-4250i Project-Out Terrace Door  
Low-Profile Sill Threshold (8 to 12 psf WTP)

High recycled content  
aluminum framing



📍 7800 International Drive. Wausau, WI 54401

📞 1.877.678.2983

✉ info@wausauwindow.com

🌐 wausauwindow.com



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