



Impact Resistant Windows





A Family Company Innovating Since 1915

In the late 1800s, an 18-year-old architect/builder, Johann Carl Otto Kubatzky, immigrated to the United States from Eastern Germany, where he worked as a builder and developer while assimilating into American culture. He eventually became a licensed Missouri architect and received his first U.S. window patent in 1915. This was followed by many additional patents that led to the incorporation of the Winco Ventilator Company in 1935.

Winco's first product was an operating projected window called a ventilator. It was built in stock sizes and sold to builders and glazers in St. Louis and the surrounding area. The first of many niche products developed by Winco, these ventilators were designed for homes and commercial applications in the mid-1930s. They were installed into 4-inch thick glass block walls, allowing fresh air to "ventilate" interior spaces.

Today, the fourth generation of Otto's family has company participation and ownership in Winco. Together, with a very talented, dedicated and loyal staff, the Winco family continues to build a strong team, maintaining its focus on product innovation, excellence and customer satisfaction.



Johann Carl Otto Kubatzky and his sons
(from left to right, Theodore Kubatzky,
Johann Carl Otto and Woodrow Kubatzky)



Johann Carl Otto Kubatzky

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For more than 100 years, we have
been developing custom aluminum
windows for clients across the country.

Providing window solutions and service you can trust

Architecture & Engineering

Our history of innovation is coupled with expertise in historic replication. By balancing craftsmanship and engineering, we specialize in maintaining buildings' architectural integrity while bringing them into the 21st century. Our vertical-integration structure allows us to design and engineer our windows in-house, ensuring our products preserve architectural design, maximize energy efficiency, meet specifications and provide safety and security – giving you confidence.

Innovation

Winco continues to pioneer innovative solutions for today's most challenging issues. These include noise-reducing windows designed to improve acoustical performance as well as blast and impact-resistant windows built to withstand explosions, hurricanes and tornadoes. Our products also meet government and industry association standards and are designed with your safety, security and comfort top of mind.

Green Commitment

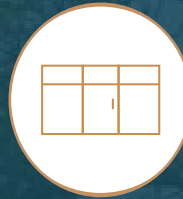
Ecological responsibility is important to us as we strive to minimize our impact on the environment through sustainable manufacturing practices. In addition to recycling all scrap aluminum and paper, we use recycled materials – many of which are sourced locally – to make our windows. Winco also promotes LEED certification through its products to help clients achieve more energy-efficient buildings.

Customization & Support

Because we understand that needs, concerns and resources vary, none of our offerings are standard. All windows are custom built to meet your design specifications, project requirements, timeline and budget, and our nationwide network of experienced sales representatives and our Winco support team provide assistance throughout the process.

Winco specializes in historic replication and is the preferred provider for the National Park Service and state historical agencies. As a family-owned business, Winco knows the value of having people you can depend on. That's why, when you work with us, you get more than premium windows – you gain a partner you can trust.

Precision-Made Windows and Doors for Proven Performance



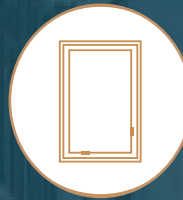
Window Wall

Innovation and affordability are not always on the same spectrum, but that's exactly what Winco Window Company provides with its window wall options. Ideal for mid- to high-rise residential and commercial properties, window walls are a less expensive alternative to curtain walls.



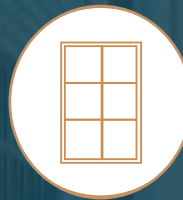
Doors

Designed to meet the most demanding aesthetic and technical specifications, Winco's thermal doors set a high standard in performance design, providing long-lasting, secure solutions for condominiums, single or multi-story office buildings and hotels. Our doors come equipped with rainscreen principle EPDM gaskets, adjustable heavy-duty hinges, multipoint locking hardware and mitered corners reinforced with corner keys for durability.



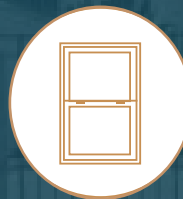
Fixed, Projected, Casement

Whether your project requires fixed, projected or casement windows — or a combination of these — Winco has you covered with thermal windows engineered for superior structural performance and durability. We offer products of differing frame depths and wall thickness, in-swing and out-swing and with a bottom- or top-hung sash to meet your needs and specifications.



Historic Replica

Historic windows require an understanding of historic construction techniques and methodology, as well as attention to detail in order to maintain an accurate design aesthetic. Winco is well-versed in the guidelines set forth by the National Park Service, the National Register of Historic Places and other preservation societies.



Single and Double Hung

Used in applications including schools, hospitals, housing developments and blast and hurricane projects, our single- and double-hung sash windows are designed to perform and protect while maintaining a building's historical integrity. The optional white bronze sweep lock at meeting rail and integral lift handle on the operable sash allows for easy operation, while an optional exterior sloped glazing leg prevents leakage and gives your building a historic look.



Sliding

Engineered for simplicity, Winco's slider windows are thermally broken and are available as sliding, fixed and unitized systems. These products come in multiple frame-depth options to meet your project needs. Often used in applications such as schools, hospitals and condominiums, our sliding windows feature a steel self-lubricating roller and an optical white bronze sweep lock at meeting rail and extruded auto jamb lock for smooth operation.



Features to Protect Your Most Important Assets

Human Impact Resistant

Hurricane Resistant

Noise Control

Tornado Resistant

Security/Blast Resistant

Zero Sightline

MARKETS WE SERVE

- Historic
- Hotel
- Medical
- Education – University
- Commercial
- Multi-family/Residential
- Military
- Government
- Education – K-12
- Industrial

Features to Protect Your Most Important Assets



Human Impact Resistant

Designed for behavioral health applications, the human impact resistant window balances safety with privacy and energy efficiency.



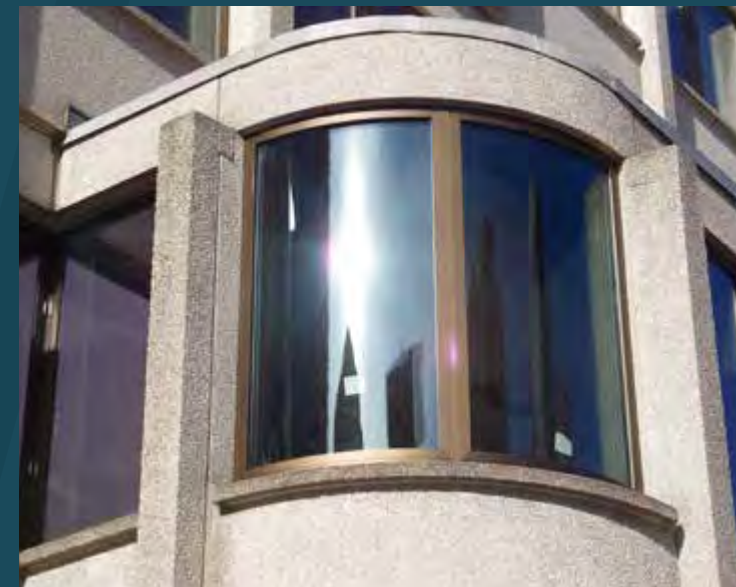
Tornado Resistant

Winco tornado impact windows are made with reinforced aluminum frames and feature laminated interlayer and polycarbonate sheets, providing outstanding protection from noise, wind and water infiltration.



Hurricane Resistant

Winco offers hurricane protection windows for buildings like schools, hospital emergency rooms, police/fire stations and other public buildings.



Security/Blast Resistant

Winco offers blast protection windows that feature energy-efficient glass systems, providing the assurance of safety without the visual reminders of security screens, shutters and barriers.



Hurricane Resistant

PRESERVING YOUR VISION

Crafting Architectural Window Solutions

WINCO Window offers tornado and hurricane rated windows that meet the standards for FEMA P-361, the Federal Emergency Management Agency's third edition of Safe Rooms for Tornadoes and Hurricanes.

These windows are designed to withstand 250- mph winds with flying debris impact testing of a 5-pound 2x4 traveling at 100-mph. Many schools, hospital emergency rooms, police/fire headquarters, and other public buildings are opting to include a safe room in their design. Since these rooms must also serve as workable space year-round, windows are an important element.

[Contact Us for a Free Project Consultation](#)

The Loutrel Hotel

Charleston, SC

The New Loutrel Hotel Fits Perfectly With Historic Charleston, SC

Oversized with multiple grids, WINCO's 3250 Steel Replica windows create an architectural highpoint above the entrance and side sections of the hotel. For contrast, WINCO's projected casement 1150S Series with larger muntin grids, along with matching NC-82 Terrace Doors, are used for the hotel's guest rooms. WINCO made custom aluminum panels to conceal ductwork between floors and designed the terrace doors with lower panels to complete the historic vibe. All window systems and terrace doors have hurricane-resistant glazing and have 70% Kynar paint - Umbra Grey.

PROJECT DETAILS

Systems Provided

Series

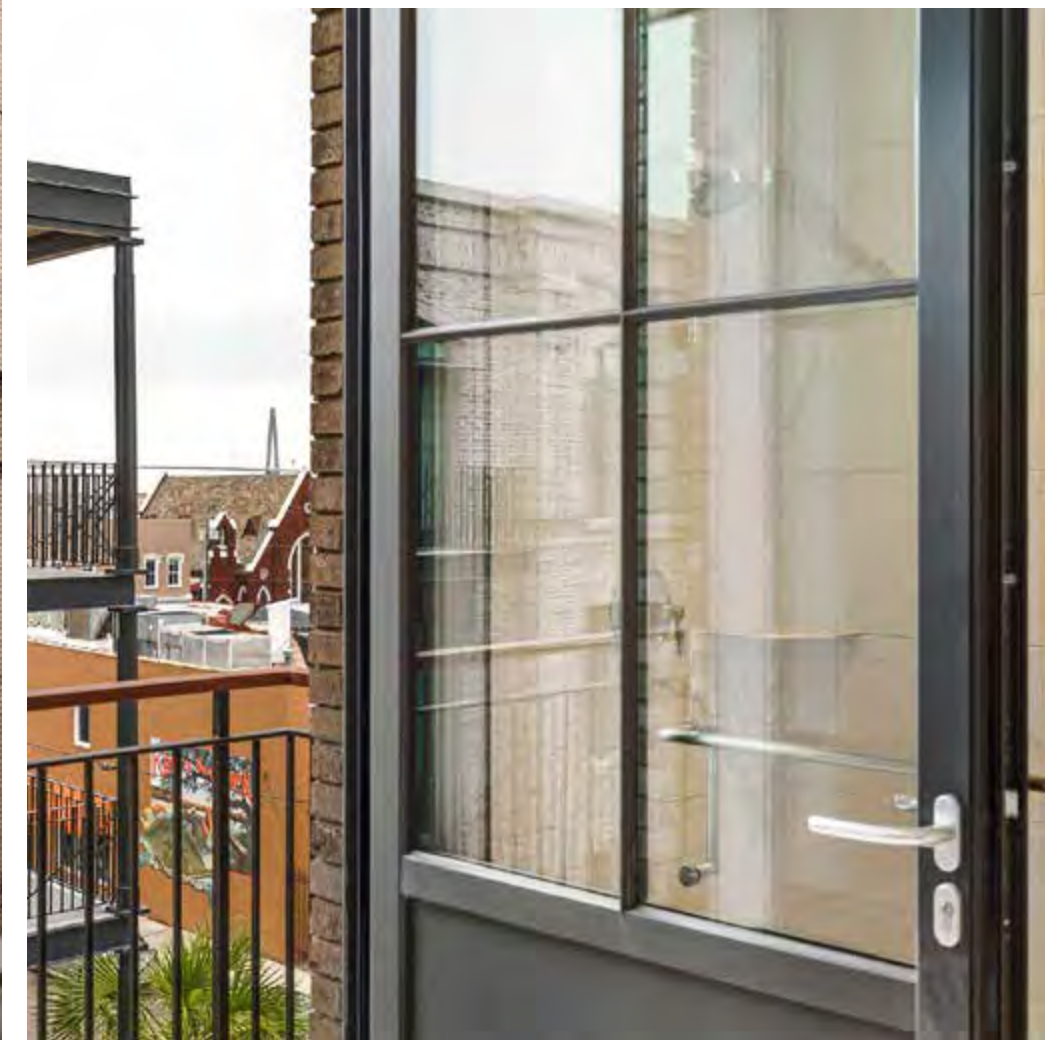
3250 Steel Replica
1150S Fixed, Projected, Casement
NC-82 Terrace Door

Market

Hotel

Features

Hurricane Resistant



Ace Hotel

New Orleans, LA

Ace Hotel New Orleans Keeps Vintage Vibe Alive

The transformation of the 1928 Art Deco, nine-story Barnett's Furniture building into an Ace Hotel features vintage-inspired interiors reflective of New Orleans' unique culture and history.

Winco's Series 3250 steel replica windows were used for the street level and the 4410 single hung windows with vertical mullions for the upper floors. Because of the building's nearly 100-year-old walls, Winco and DeGeorge Glass Company in New Orleans created a new strapping system to attach to new vertical studs on the interior. This reinforcement ensured that the old walls could handle the heavy hurricane resistant laminated glass windows. The laminate also offers acoustic, solar and wind protection.

PROJECT DETAILS

Systems Provided

Series

3250 Steel Replica

4410 Single Hung

Market

Hotel

Features

Hurricane Resistant



The Pythian

New Orleans, LA

The Pythian Apartments celebrate New Orleans' past

Winco was there to help revive this important cultural landmark. Our 3250 Steel Replica historic windows recreate the look of the original windows and add structural performance, hurricane resistance and acoustic benefits that will last for decades to come.

Today, the Pythian captures the prestige of its early 20th century design with the advancements of modern architecture. The 10- story high-rise was redeveloped for residential and commercial use, meeting LEED Silver standards for new construction. Craftsmen carefully restored the masonry, cast stone, and ornamental terra cotta.

PROJECT DETAILS

Series Provided

Series

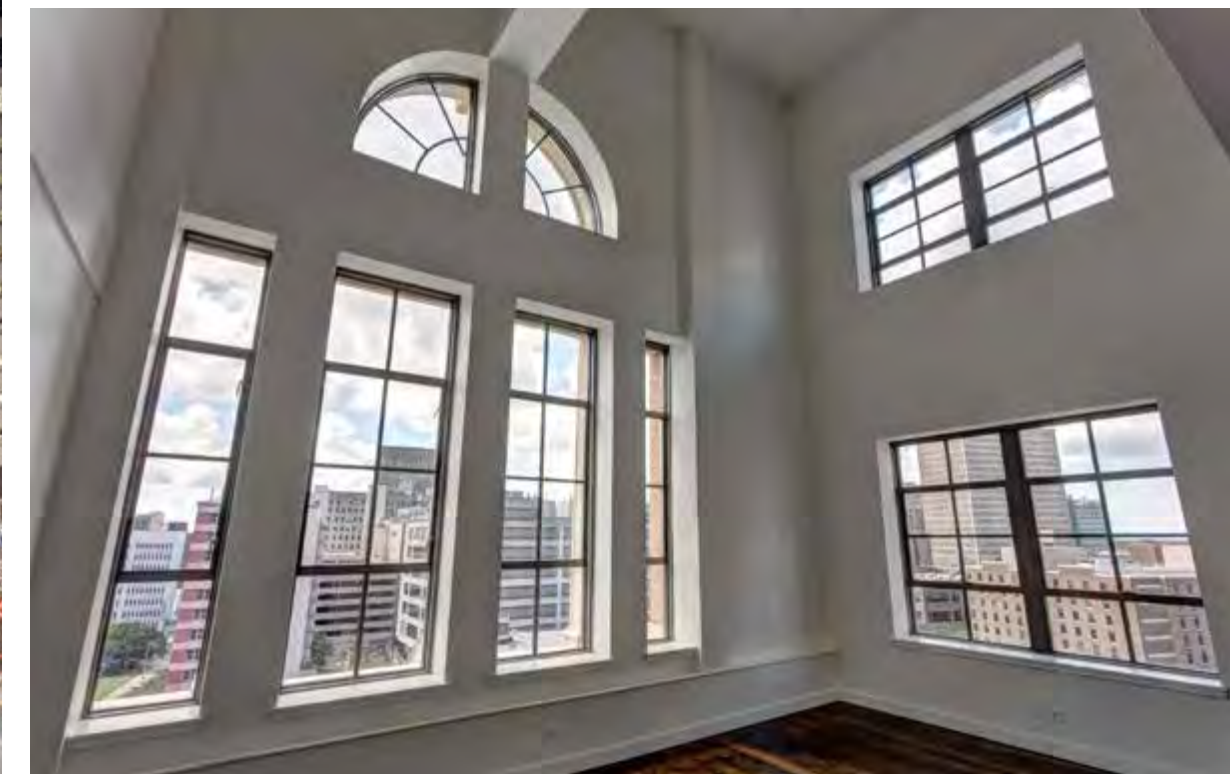
3250 Steel Replica

Market

Commercial

Features

Hurricane Resistant



Farnsworth Apartments

New Orleans, LA

Steel Replica Windows and Terrace Doors Make New Orleans' Modernist Beauty a Standout

Designed in 1932, the once-declining Farnsworth Apartments on New Orleans' historic St. Charles Avenue have a new lease on life. According to the Society of Architectural Historians, "The Farnsworth Apartments were a unique addition to St. Charles Avenue in its frank expression of modernist principles. The streamlined horizontal emphasis, wraparound metal-framed windows, and flat roof were ideas new to New Orleans, not just this street."

Among the most noticeable upgrades are the new windows and doors, which provide a bold, pop of style against the refreshed white brick exterior. WINCO's 3250 Steel Replica windows in a variety of grid patterns are finished in charcoal grey. The new energy-efficient windows were designed to replicate the original steel windows and provide protection against coastal windstorms. Completing the renovation, the architects chose WINCO's NC82 Terrace Doors, which also meet local hurricane resistance requirements for safety.

PROJECT DETAILS

Systems Provided

Series
3250 Steel Replica
NC-82 Terrace Door

Market
Multi-Family/Residential

Features
Hurricane Resistant





Tornado Resistant

PRESERVING YOUR VISION

Crafting Architectural Window Solutions

Long a leading manufacturer of hurricane-rated (large missile impact) commercial windows, Winco has introduced a unique lineup of aluminum tornado-rated windows, built to withstand direct impact from a 15 lb. section of 2x4 lumber, shot from a test cannon at over 100 mph. WINCO offers tornado and hurricane rated windows that meet the standards for FEMA P-361, the Federal Emergency Management Agency's third edition of Safe Rooms for Tornadoes and Hurricanes.

Tornadoes are nature's most violent storms, sometimes reaching ground wind velocities of over 200 mph, compared with typical hurricane velocities of under 150 mph. While safety experts recommend evacuation to window-less "safe rooms" during tornado alerts, such super-secure building areas are not always available.

Winco Tornado Impact Windows are made with reinforced aluminum frames and feature laminated interlayer and polycarbonate sheets, providing outstanding protection from noise, wind and water infiltration, as well as energy-saving thermal ratings of less than 0.35 U-value. Models available include the first operating projected window rated for tornadoes with ground speeds of over 150 mph. These windows offer unusual comfort and peace of mind for building inhabitants in Tornado Alley and elsewhere.

[Contact Us for a Free Project Consultation](#)

Pinellas County Emergency Response and Control Center

Clearwater, FL

Florida Emergency Command Center Features Tornado Resistant Windows

The modern two-story operations building, is constructed of reinforced tilt-wall concrete precast wall panels, with a flat concrete composite roof and with structural steel interior. It is a fully-equipped emergency storm shelter.

The sprawling multipurpose structure has achieved LEED GOLD certification by the United States Green Building Council (USGBC). All Winco tornado impact windows are made with reinforced aluminum frames with a 1-1/2-inch glazing leg. Laminated interlayer and polycarbonate sheets can save property and lives. They also provide outstanding protection from noise, wind and water infiltration, as well as energy saving thermal ratings of 0.35 U-Value or better. Operating models are also available from Winco.

PROJECT DETAILS

Systems Provided

Series

FEMA 361 - ICC 500 Tornado

Market

Government

Features

Tornado Resistant



Tavares Public Safety Complex

Tavares, FL

Tavares' New Public Safety Complex is Emergency-Ready

Designed to meet FEMA's tough Essential Facility requirements (Risk Category IV), the new Public Safety Complex in Tavares, Florida is a modern day fortress. The 40,000 square foot facility houses the city's police, fire, and first dedicated Emergency Operations Center (EOC).

The new facility is built to withstand anything. Both the framing and glazing of WINCO's 3350 series Fixed windows meet FEMA P-361 standards for tornado and hurricane safety ratings, capable of withstanding 180-mph winds with flying debris impact testing of a 15-pound 2" x 4" traveling at 100-mph.

PROJECT DETAILS

Systems Provided

Series

FEMA 361 - ICC 500 Tornado
3350 Fixed, Projected, Casement

Market

Government

Features

Tornado Resistant





Lincoln Elementary School

Elmhurst, IL

FEMA-rated Windows for Safe Room

Elmhurst's new Lincoln Elementary School features walls of precast wall plank, tornado-rated doors at every entrance, and WINCO FEMA 361 – ICC 500 Tornado windows in the gym, aka the Safe Room for storms. These Winco windows feature one polycarbonate lite and one insulated, laminated lite. This dual glazing ensures glass shards remain intact on the laminate if the windows are broken due to heavy winds or flying debris. The gym windows are also trimmed with Kynar paint in primary colors of yellow, orange, green, and blue.

The colorful palette continues into the classrooms. The trim surrounding the Series 8325F windows were painted to coordinate with book nooks in the classrooms.

Winco offers a wide array of glazing choices and this project showcases that capability beautifully. Winco's clear anodized 3325 Zero Sightline windows are used in the curtainwall section of the building to allow occupants control of airflow and their overall environment.

PROJECT DETAILS

Systems Provided

Series
8325F Fixed, Projected, Casement
3325 Zero Sightline
FEMA 361 - ICC 500 Tornado

Market
Education K-12

Features
Tornado Resistant





Security/ Blast Resistant

Crafting Architectural Window Solutions

Winco offers Blast Protection Windows that features 2- to 4-1/2 inch frames and energy-efficient glass systems with laminated interlayer, behind a sacrificial exterior panel. This provides the assurance of safety without the visual reminders of security screens, shutters and barriers.

Winco has successfully blast tested using live explosives (not just shocktube testing) to replicate up to 3,000 lbs. of TNT at 160 ft. Increased interest in blast protection for private buildings has resulted in the introduction of Winco's new Blast Protection Aluminum Terrace Door.

In addition to blast mitigation, these fortified Winco products provide outstanding protection from noise, wind and water infiltration, as well as offering energy-saving thermal ratings as low as 0.30 U-Value.

[Contact Us for a Free Project Consultation](#)

John F. Kennedy Federal Building

Boston, MA

Winco Works Day- or Night -to Get the Job Done Right

After more than 50 years, the time had come to update the JFK Federal Building with new, technologically improved windows that would resolve issues of air infiltration, sound infiltration and heat loss and most importantly, security. Winco designed, tested and supplied the project with a pre-glazed window system that could be installed on site & even under the cover of night. The custom high performance pre-glazed 1150 fixed and bent corner system integrates historic design with security technology. Building occupants enjoy natural light without the visual reminders of security screens, shutters and barriers.

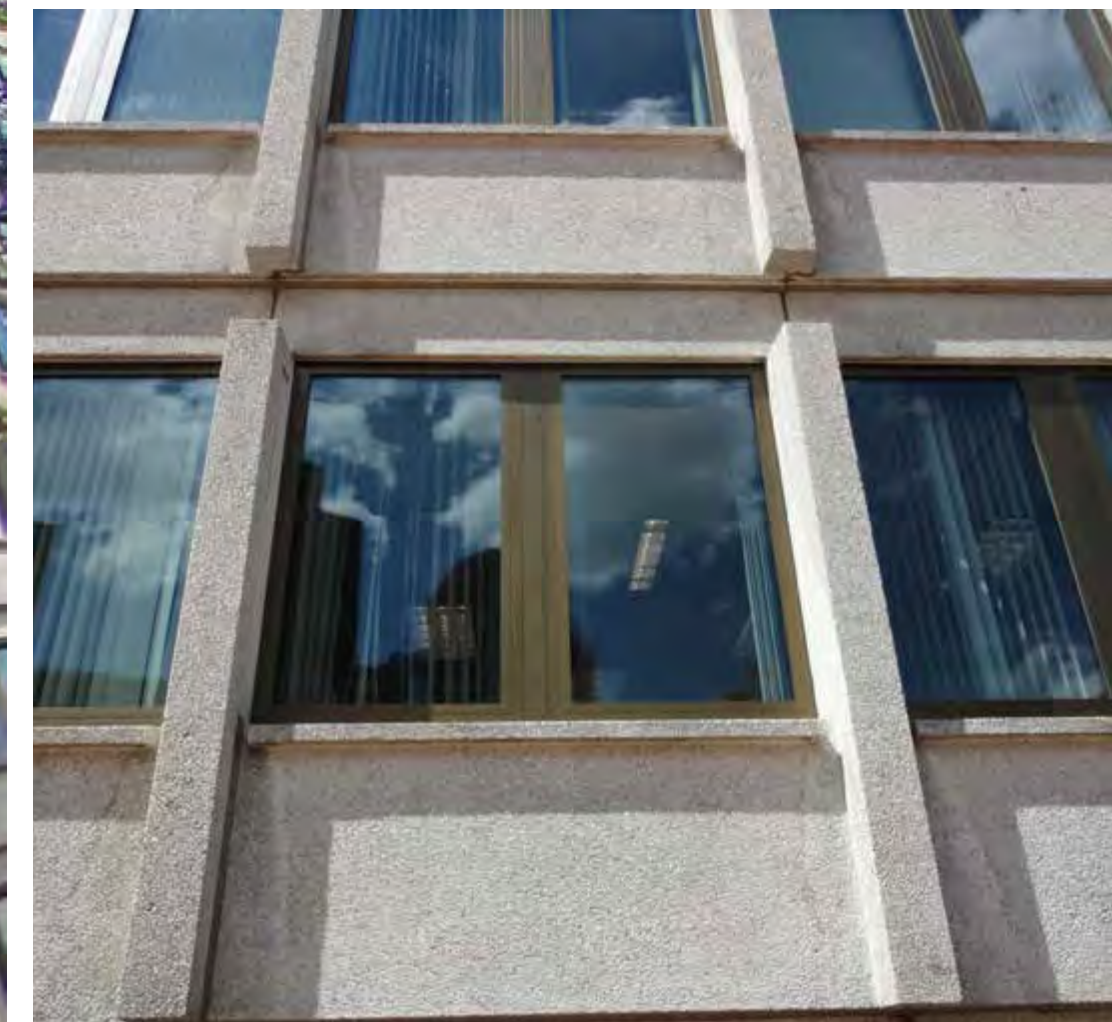
PROJECT DETAILS

Systems Provided

Series
1150 Fixed, Projected, Casement

Market
Government

Features
Security/ Blast Resistant



Marce Herz Middle School

Reno, NV

Smart Schools Utilize Smart Windows

The 190,000 square-foot campus was built for 1,400 students to relieve overcrowding at elementary and middle schools in south Reno. The buildings are state-of-the-art, equipping classrooms and common areas with technology and conveniences to ensure a safe, yet welcoming learning environment.

Among the school's special features is Transira™ Window Solutions, a new energy-saving, security ensuring window from WINCO Window Company. Transira™ Windows feature two technologies in one product: A motorized roller shade pre-installed between thermal glass window panes and controlled by keypads or automation systems. This latest energy-saving technology streamlines the installation process, slashes energy bills, and ensures security with the touch of a button.

With its enclosed shades, Transira™ Windows provides another, more timely benefit ideal for highly populated buildings such as schools: an easy-to maintain healthier environment.

PROJECT DETAILS

Systems Provided

Series

Transira Solutions

Market

Education K-12

Features

Automated Shading



City of Belleville Public Building | Police Department

Belleville, IL

Merges Security with Style

For safety without unsightly security screens, shutters and barriers, Winco found an innovation solution. They installed bullet-resistant polycarbonate windows behind the exterior glass, which improved security, saved money and continued to allow natural light to flow inward. The 2 to 4-1/2 inch frames, energy-efficient glass systems can help withstand forced entry by intruders, stray bullets, and storm damage, allowing the facility to stay functional following any man-made or weather threats.

Designed to Federal Emergency Management Agency standards, the dispatch area stays in operation during an emergency while the sally port provides safe shelter for prisoners and employees.

Winco offers a wide range of high performance products, protective products for blast, ballistics and forced entry resistance and hurricane and tornado protection. Blast windows have been successfully blast tested using live explosives replicating up to 3,000 lbs. of TNT at 160 ft. They're also fortified to provide outstanding protection from noise, wind and water infiltration, and offer energy-saving thermal ratings.

PROJECT DETAILS

Systems Provided

Series

1150

Market

Government

Features

Security/ Blast Resistant



Tuttle Courthouse Annex

Atlanta, GA

Historic Atlanta Federal Building Posed Architectural, Structural and Blast Protection Challenges

Built in 1920, The Tuttle Annex is a five-story timber frame building with red triple-brick walls. Meeting modern thermal performance, GSA blast mitigation and local historical requirements posed a unique design and fabrication challenge. The new fixed heavy commercial windows had to closely emulate the sightlines, meeting rail, muntin, and sloped putty aesthetics of the original wood double hung windows.

Custom modified Winco Series 1450S historic aluminum fixed windows filled 207 openings with 328 engineered units that met GSA blast protection requirements and architectural replication standards.

Fiberglass epoxy reinforced the structures walls to handle the blast loads.

PROJECT DETAILS

Systems Provided

Series

1450S

Market

Government

Features

Security/Blast Resistant



Federal Reserve Bank

St. Louis, MO

Federal Reserve Bank Restoration Recaptures the Look of 1925

The original windows were replicated using Winco's 3350 & 1550 Window Series. The windows are blast resistant with an aluminum finish of 70% Kynar Federal Bronze paint.

PROJECT DETAILS

Systems Provided

Series
3350 & 1550

Market
Government

Features
Security/Blast Resistant





Human Impact Resistant

PRESERVING YOUR VISION

Crafting Architectural Window Solutions

Our Psychiatric Windows let the sunshine in. They can also provide a quiet, comforting environment using our integrated blinds option. Yes, they may look like ordinary windows, but they're built tough to protect patients and property. Within a non-institutionalized looking framing system, our Psychiatric Windows feature aesthetic hallmarks of traditional windows:

- Dual or triple glazing
- Impact and mar-resistant polycarbonate or laminated glass
- Dual weather-stripping
- Concealed hinges
- Redundant locking mechanism
- Flush hardware and sash

But what lies underneath these frames is uncommon strength constructed for performance, durability, and security. Winco Psychiatric Windows can withstand a number of potential dangers: attacks from blunt or sharp objects, intruders, and exposure to chemicals or bodily fluids. They meet or exceed a battery of tests, including:

- AAMA-rated for AW-80 air, water and structural performance
- AAMA 501.8 (2,000 ft. lbs.)
- Swinging Test Weight of a 300-lb. weight, simulating the impact of a 250-lb. man

[Contact Us for a Free Project Consultation](#)

Robert Wood Johnson Hospital

New Brunswick, NJ

The Other Side of Psychiatric Windows

WINCO Window and Window City worked together in determining the best window option for the hospital's needs, then Window City's in-house crew installed more than 40 specially designed WINCO 8800 Psychiatric 1450L Fixed Projected Casement windows. Instead of unsightly psychiatric screens, WINCO added an accessory panel to each window to make them look uniform on the outside while providing the required patient protection on the inside. The windows are tested to resist breakage from more than 300 pounds of swinging force. Just as importantly, these windows allow for healing natural light to flow into the patient rooms.

PROJECT DETAILS

Series Provided

Series

8800 Psychiatric Window

Market

Medical

Features

Human Impact Resistant



El Camino Hospital

Mountain View, CA

El Camino Hospital Delivers on Tranquility

Daylighting and access to nature have been found to have a positive effect on patient mental and behavioral health. The ECH facility also uses laminated safety glass to create a warm and welcoming environment for both patients and staff, while offering the safety and security that can help set patients on the road to recovery.

Winco's psychiatric window system offers multiple benefits:

- Anti-Ligature hardware for patient safety
- Recessed control knob operation or wall switch
- Can be specified with shades or blinds
- Can be tilt/turn and raise/lower
- Meets 2000lb impact testing requirements from AAMA A501.8-1.
- Any finish and larger sizes available

PROJECT DETAILS

Systems Provided

Series

8800 Psychiatric Window

Market

Medical

Features

Human Impact Resistant





Winco Window Company

P: 800-525-8089

Email: sales4@wincowindow.com

wincowindow.com