



# Folding Glass Wall Systems

Aesthetics, Performance and Durability

NanaWall 





## Why NanaWall Operable Glass Wall Systems

### **NanaWall Defines the Folding Glass Wall**

The NanaWall folding glass wall offers countless options for wide open space, secure weather protection, and flexible interior areas. Clean lined glass panels glide effortlessly on precision engineered hardware to create large inviting entrances that seamlessly transition indoor and outdoor spaces yet close securely to form a rattle and draft free barrier to winter storms.

For every application, NanaWall folding glass walls promote true *design freedom* with hundreds of options for configurations, materials, glazing and finishes—every one backed by superior NanaWall testing and technology.

### **Performance and Weather Resistance**

Every NanaWall system is backed by over 25 years of research, system improvement and stringent independent testing resulting in unsurpassed durability in all-weather environments and exceptional long-term performance. NanaWall's test results for wind, water and sound penetration, forced entry and impact, thermal performance, structural load and cycle testing facilitate choosing a system that meets or exceeds design specifications and ensures trouble free operation.

### **Trouble-free Operation and Maintenance**

NanaWall folding glass wall components combine precision engineering with high-grade materials resulting in a folding wall that glides smoothly and easily with minimal effort—no matter the size or number of panels being operated. Secure multi-point locks engage with the turn of a handle. Maintaining a NanaWall is a breeze thanks to built-in adjustment points, easy to clean sills, and variable interlocking edge-to-edge profiles that minimize expansion issues.

### **Design Flexibility**

Options for top-hung or floor mounted models expand the possibilities for new construction and existing structures. Choose solid wood, aluminum-clad frames or all-aluminum in several sizes, single, double, or triple glazing or almost any specialty glazing upon request. Go traditional with multiple divided lites in gleaming wood or modern with 12' high clear anodized aluminum. Outswing or inswing, right or left opening, all with convenient swing doors on the jamb or within the chain of doors.

No other folding door offers the options for configuration, panel sizes, materials and system construction available with the NanaWall folding glass wall system—all backed by independent testing and 25 years of field experience.

These are the *design choices* that make NanaWall folding glass walls the system that architects and design professionals rely on to complement their most inspired projects.

Wapiti Valley Residence, WY  
NanaWall Aluminum Framed Thermally Broken SL70  
Architect: Studio.BNA

**NanaWall**<sup>®</sup>  
Grand Transformations 

## Invite the Outdoors Inside



Manor Garden Apartments, NJ  
NanaWall Aluminum Framed Thermally Broken SL70  
Architect: Red Bridge Homes

Taylor's Island Residence, MD  
NanaWall Aluminum Framed Thermally Broken SL70  
Architect: Kieran Timberlake Associates





Scottsdale Residence, AZ  
NanaWall 90° Cornerless SL45  
Architect: Residential Design LLC



Alamo Residence, CA  
NanaWall Aluminum Clad Wood Framed WA67 with divided lites  
Architect: Dahlin Group

# Performance and Weather Resistance



“Winter on Lake Erie is brutal. Our goal was a 3 season room—we achieved an air tight 4 season room. Last year the NanaWalls passed another test. Hail and 60 mph winds left homes along this lake front with severe window damage. The NanaWalls came through without a scratch. We are very pleased.”

—Barbara and Ralph D. Rocky River, OH

Lake Erie Residence, OH  
NanaWall Aluminum Clad Wood Framed WA67  
Architect: The Arcus Group



## Unrivaled Weather Resistance

- A folding glass wall system operating in extreme environments requires superior engineering to maintain a comfortable environment.
- When closed, the panels provide a weather-resistant barrier against wind, rain, snow, and cold temperatures.
- NanaWalls offer unsurpassed reliability in the most demanding environments.

Whistler Residence, British Columbia  
NanaWall Aluminum Clad Wood Framed WA67 with triple glazing

## Unequaled Performance

- A NanaWall meets or exceeds industry standards for air infiltration, water penetration, structural performance, forced entry, and extreme weather protection.
- NanaWall Systems is the first and only folding door company to meet Passive House Standards. Most NanaWall systems are NFRC certified and can meet Energy Star requirements.
- The SL73 is Miami-Dade County and AAMA hurricane approved.
- STC ratings are available for the SL60, SL70, WD65 and WD66

Bachelor Gulch Residence, CO  
NanaWall Aluminum Clad Wood Framed WA67  
Architect: VAG Inc.



# Solutions that Transform



## 60 Orchard: Space Utilization Case Study

60 Orchard St., New York City  
 NanaWall Aluminum Framed Thermally Broken SL70  
 Architect: GAteliers Architecture

### Challenge:

GAteliers Architecture had the challenge of turning an old run-down structure into a stand-out, modern building.

### Solution:

Use NanaWall Thermally Broken SL70 Folding Glass Wall Systems for each unit.

### Results:

The architect eliminated the balconies and reclaimed the space for interior usage without losing the outside connection. Six panels of NanaWall SL70's allow residents to open up 18 feet of exterior glass while the building façade gains a modern contemporary look.





## Kitchen Transition

The NanaWall Kitchen Transition is a custom window-door combination that opens wide, seamlessly turning an existing kitchen into an indoor/outdoor entertainment space.

Belvedere Residence, CA  
NanaWall Wood Framed WD66

## Folding Glass Window

Incorporating a NanaWall into a typical window height opening enables the same design benefits and weather performance of full height openings. Both inward and outward stacking options are available.

Hollywood Hills Residence, CA NanaWall Aluminum Framed SL45 Window



## NanaScreen

- Collapsible pleated screen panels ride a single narrow floor track.
- Screen panels up to 3'3" wide collapse into a 4" wide vertical cassette.
- Multiple cassettes are joined to cover openings up to 40' wide x 10' tall.
- Pass-through openings are magnetically closed.



Honua Kai Residences, HI  
NanaWall Aluminum Framed SL60 with NanaScreen





Hawaii Residence NanaWall Aluminum Framed Thermally Broken SL60 Architect: Dinmore and Cisco

# Create Large Inviting Entrances



Strand Hotel, New York City  
NanaWall Aluminum Framed Thermally Broken SL70  
Architect: Gene Kaufman



## **DURABILITY AND TROUBLE FREE OPERATION**

### **Designed to withstand tough commercial environments**

- To ensure durability and longevity, NanaWall Systems continuously tests for wind, water, forced entry, structural load and cycle testing.
- Each NanaWall is crafted with state-of-the-art hardware and sealed ball bearing multi-roller running carriages for smooth and quiet operation.
- The Miami-Dade County and AAMA hurricane approved NanaWall SL73 was designed to protect against extreme weather but also can serve as a secure and vandal resistant storefront for retail applications.



Above: Ristorante Asellina, New York City  
NanaWall SL70  
Architect: Stephen B. Jacobs

Below: Palo Alto Children's Library, CA  
NanaWall SL45  
Architect: Architectural Resources Group

Above: Hotel Indigo, San Diego, CA  
NanaWall SL70  
Architect: JWDA, Inc.

Below: Tucker's Point Beach Club, Bermuda  
NanaWall SL73  
Architect: NCG Architects



Lift Bar & Grill, BC  
 NanaWall WD65  
 Architect: Downs Archambault & Partners



Camelback Inn Marriott, AZ  
 NanaWall SL45  
 Architect: Architectural Concepts



L.L. Bean Retail Store, MA  
 NanaWall SL70

## Restaurants & Retail Storefronts

Stores and restaurants become more accessible: the entire street front becomes a welcoming door. Passersby can connect with the restaurant's ambiance and easily see the food being served or the merchandise for sale.



## Hospitality

Attaining a unique atmosphere has become a pivotal concern for hospitality managers. A NanaWall operable glass wall system in hotel design creates a distinctive experience.

Vandeventer Black LLP, VA  
NanaWall WD65  
Architect: Archi-Techniques, Inc.



AT&T Park San Francisco, CA NanaWall SL45 Architect: Hubbard Godfrey Architects

## Stadiums & Sports Complexes

NanaWall operable glass walls create comfortable and uniquely adaptable luxury stadium boxes. Narrow stile glass panels offer an unobstructed view when wide open or closed. In the off season the secure, weather resistant NanaWalls protect interior spaces and furnishings from exposure and unauthorized entry.



## Office & Multi-use Facilities

Incorporating a NanaWall in office floor plans promotes flexible use of space and fosters co-worker collaboration—a key benefit for today's business environment. Conference and multi-use areas can be easily created or consolidated based on changing activities and floor space requirements.





Levant East at Hotel Thor, New York City NanaWall Aluminum Framed Thermally Broken SL70 Architect: SWA Architects and Planners

Hyatt Regency Waikiki, HI  
NanaWall Aluminum Framed SL45  
Architect: Frank McCue

### NanaWall Sustainable Benefits

A NanaWall allows natural sunlight to illuminate interiors, saving energy with passive solar heat, natural daylighting, and ventilation while reducing demands on HVAC systems and artificial lighting. Opening a NanaWall increases ventilation and provides a total building flush rapidly before or during occupancy.

- NFRC/Energy Star Certified systems with industry leading U-factors and Solar Heat Gain Coefficients.
- Recyclable aluminum frames with 25% pre-consumer recycled content and eco-friendly powder coated finishes.
- Wood frames with eco-friendly water-based pre-treatment.
- PEFC-certified douglas fir is standard and FSC-certified pine, meranti, spruce, American white oak, and laminated bamboo is available.



Rockies and Diamondbacks Spring Training Center, AZ  
NanaWall Aluminum Framed SL45  
Architect: HKS Sports & Entertainment Group

NanaWalls helped the Arizona Diamondbacks and Colorado Rockies Salt Fields Spring Training Facility to achieve LEED Gold status. Strategies such as installing NanaWall SL45 operable glass walls helped contribute to a 23.5% overall energy savings.

# Enhance Schools with Flexible Use of Space



Booker T. Washington STEM Academy, IL NanaWall SL45 Architect: Cannon Design

NanaWall operable glass wall systems optimize limited floor space in schools, increase classroom flexibility, and create a more enjoyable teaching environment for educators. Teaching staff can use the operable glass walls to either combine classroom activities or to separate students for specific activities.

## Benefits

- Sound-dampening isolates noisy activities.
- Swing door option for easy access
- Increased floor space functionality reduces the need for additional new buildings and expansion.
- White board option for all or part of the panel glazing

Thomas Jefferson School, MO  
NanaWall SL70  
Architect: Perkins & Will

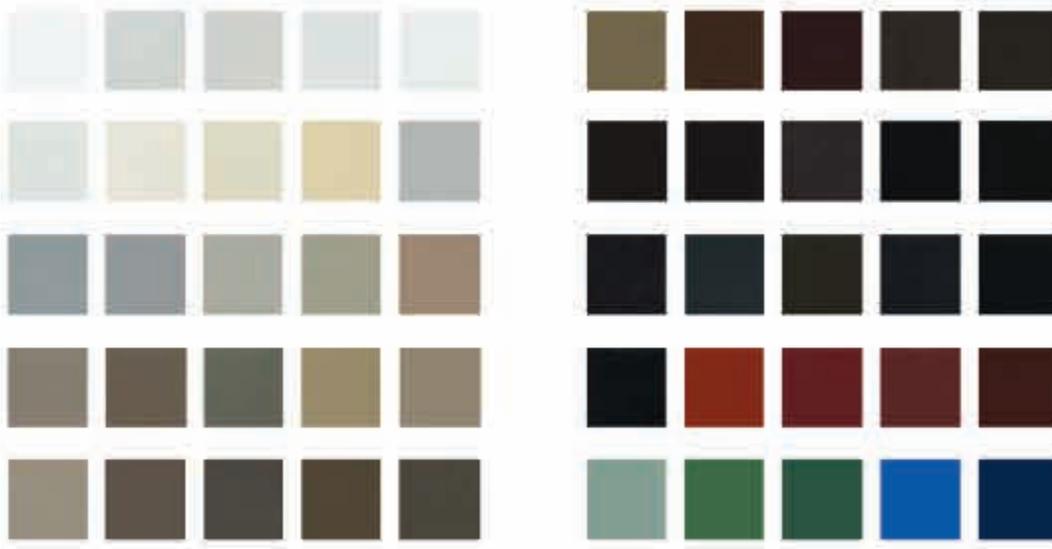


# NanaWall Folding System Configurations

## Finishes and Materials

Hundreds of durable powdercoat and anodized finishes are available as well as PVDF Kynar for selected systems. Wood choices include douglas fir, pine, western hemlock, meranti, oak, spruce, mahogany, and laminated bamboo. Specialty woods are available on request.

### Standard Powdercoat Finishes



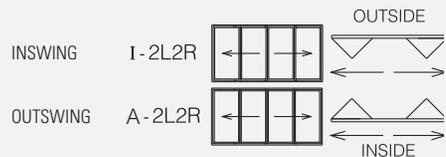
## Panels and Glazing Options

- Panel heights of up to 12' and widths of 4' are possible depending on configuration and model (may require horizontal mullion).
- Glazing options include clear insulated, insulated low-E, triple insulated low-E, bird protection glass, turtle glass, Heat Mirror, impact and other specialty glass.
- Top hung or floor mounted options are available for most systems.
- Convenient swinging entry/egress panels may be hinged to a side jamb or be configured within the chain of panels. Swing panels can open up to 180° depending on surrounding walls.
- Optional paired panel configurations can stack, store and move independently of each other with the ability to stack to both sides.

\*These colors are a general representation of actual swatches. For accurate color depiction, please contact us to request our NanaWall Powdercoat swatch brochure. Shown are a selection of the standard colors available. Contact NanaWall for other possible finishes.

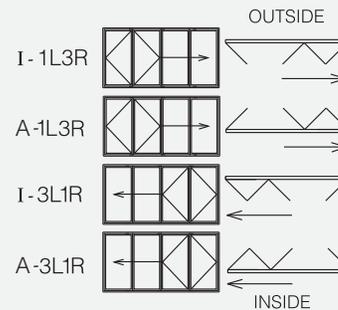
## The Basic Configurations for a 4-panel NanaWall Folding System:

### Symmetric Solution

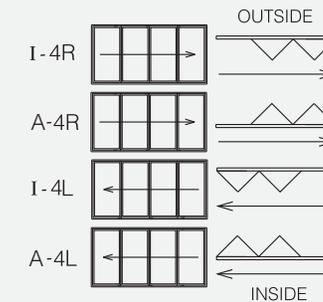


Similar configurations are possible with other numbers of panels.

### Pair of Swing Doors Solution



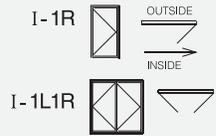
### All Panels Folding to One Side



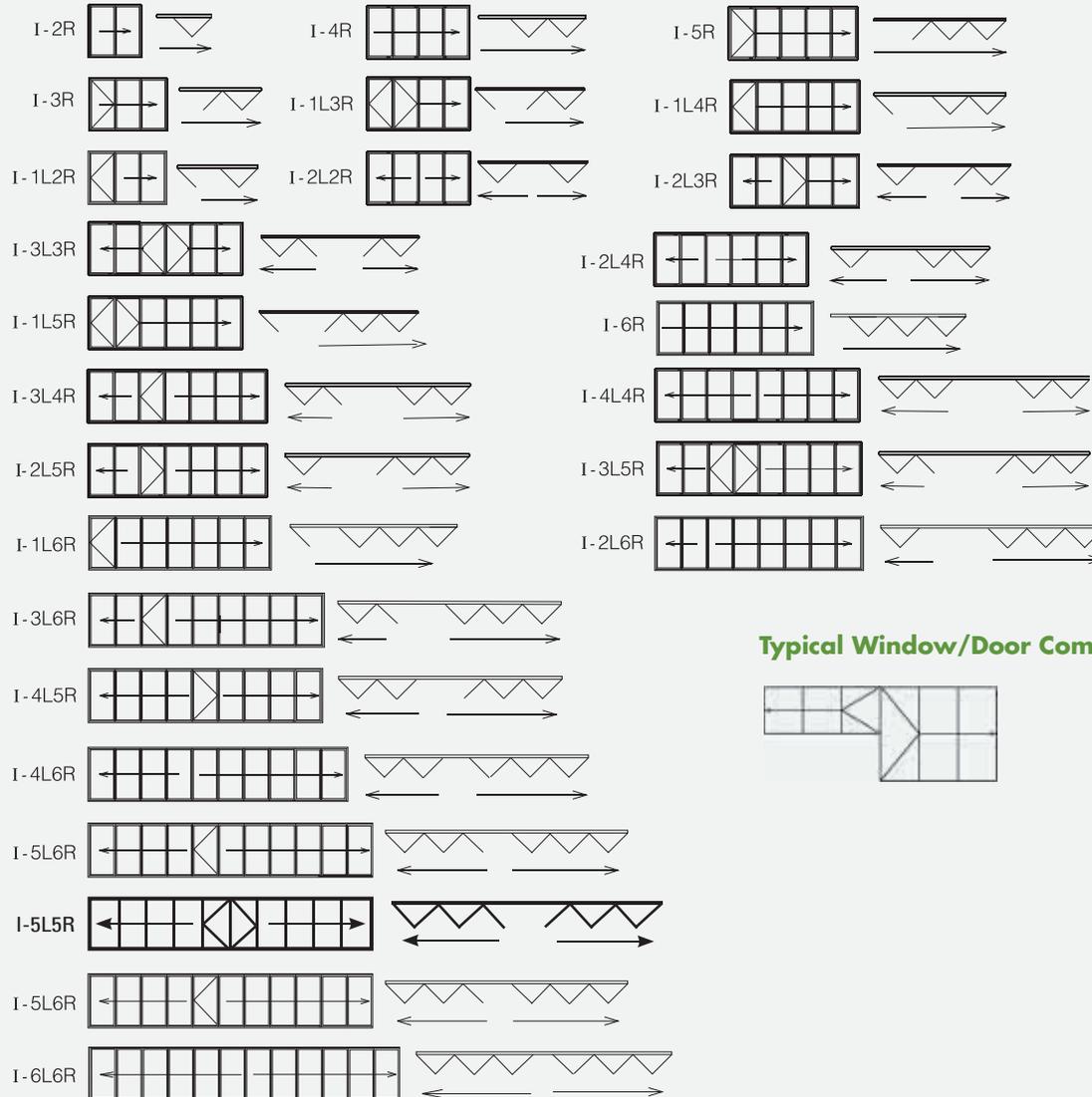
# Opening Configurations

Over fifty opening configurations are possible with inward, outward or center-pivot opening options. Unhinged paired panels can be used for extra wide openings and additional functionality. Many systems can be configured with 6° - 12° segmented curves and 90° - 135° open corners. For easy entry/egress, locking swing panels may be attached to a side jamb or attached to the end of a chain of bi-fold panels.

MODEL:



In this chart are example inward opening configurations with most panels folded to the right. **The exact mirror configurations can be achieved with the majority of the panels folded to the left.** The same configurations are also available outward opening.



## Typical Window/Door Combination



## Legend

- Indicates folding direction
- Indicates single swing panel
- Indicates pair of swing doors
- I=Inward Opening A=Outward Opening

## Other Typical Examples

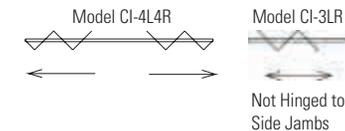
### Paired Panels

Paired panels are possible with the SL45, WD65, and WA67. Any number of paired panels can be added to the configurations represented in the Opening Configurations chart.



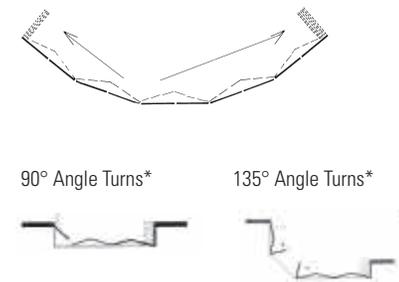
### Center Pivot

Possible with the SL45 & WD65 Systems



### Segmented Curves

Possible with the SL45, SL70 and WD65 Systems



## Choices of NanaWall Aluminum Frames

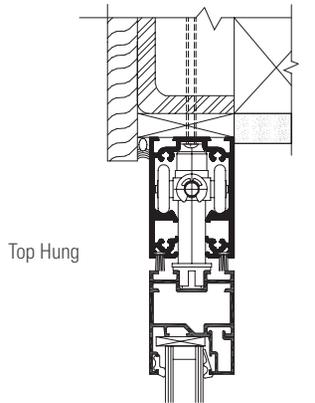
Depending on the application, NanaWall offers six different aluminum profile systems to meet weather resistance, thermal performance, structural performance, size, function, stacking and aesthetic requirements.

System	Support	Max Panel Widths/Max Frame Heights <sup>1</sup>	Key Properties <sup>2</sup>
SL45	Top Hung	3'7" x 8'6" – 2'11" x 9'6"	Monumental top hung system, angle changes, segmented curves and center pivot possible. STC ratings
SL60	Top Hung or Floor Mounted	3'3" x 7'10" – 2'3" x 9'2"	Thermally broken system, high weather testing results with the raised sill (inswing tested to 15 psf), primarily residential. NFRC certified, Energy Star-rated with selected glazings, STC ratings.
SL70	Floor Mounted	4' x 8'2" – 3' x 12" with horizontal mullions	Monumental thermally broken system, high weather testing results with the raised sill (inswing and outswing tested to 12 psf), high DP rating, 90° and 135° angle changes possible. NFRC certified, Energy Star-rated with selected glazing, STC ratings.
SL73	Floor Mounted	up to 3' x 10" (for Dade County, 3' x 8'2")	Dade County/AAMA hurricane approved system, with impact glass, vandal resistant, NFRC Certified, Energy Star rated with selected glazing.
SL35	Top Hung	3'3" x 7'10" – 2'7" x 8'10"	Standard top hung system, primarily residential.
SL82	Floor Mounted	up to 3'3" x 8'2"	Structurally glazed, minimal exterior stile all glass "look" thermally broken system. CE Mark Certified with selected glazing.

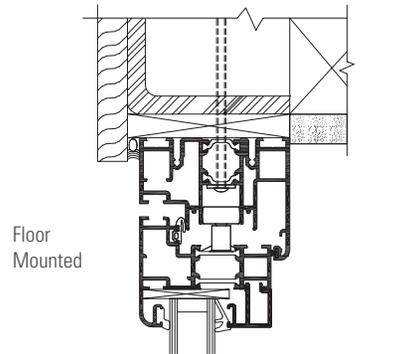
<sup>1</sup> Maximum size depends on the combination of panel height, width and glazing. <sup>2</sup> As many factors, such as system, size of panels, direction of swing, configurations, type of sill, etc. can affect performance, please contact NanaWall Systems for detailed test results. <sup>3</sup> With horizontal mullions.

Scale: 1/4" = 1"

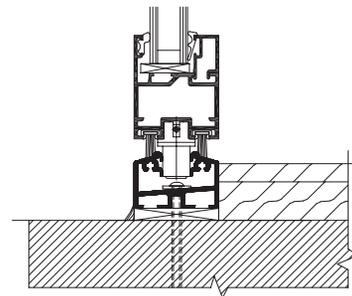
**SL45 Inswing/Outswing**



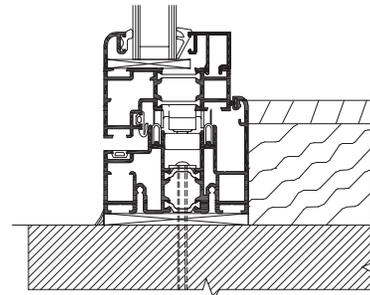
**SL70 Outswing**



**SL45 Standard Sill**



**SL70 Raised Sill**



### Weather Resistance

Double gaskets provide weather resistant comfort. Concealed hinges ride in a secure track on the spine of wood panels providing some adjustability and overall system stability.



### Durability

Dual stainless steel runners and tracks for floor mounted systems prevent wear and are not affected by track debris.



### Trouble-free Operation

Patented twin independent-axle running carriage with polyamide rollers provide smooth operation on top-mounted systems with no "flat tire" effect if doors remain closed for long periods.



### Long-term Performance

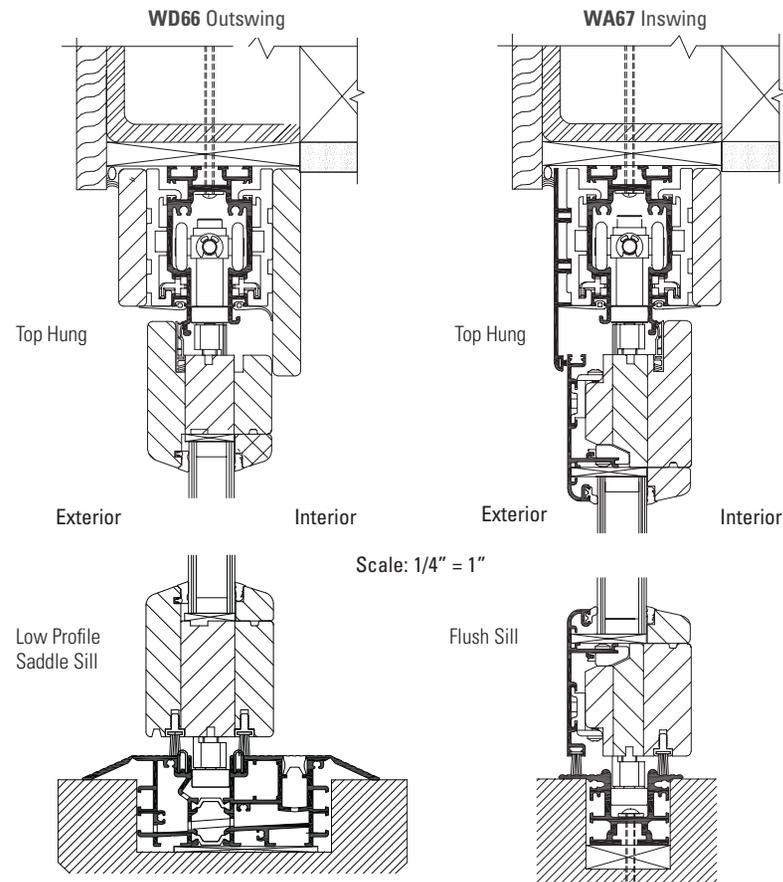
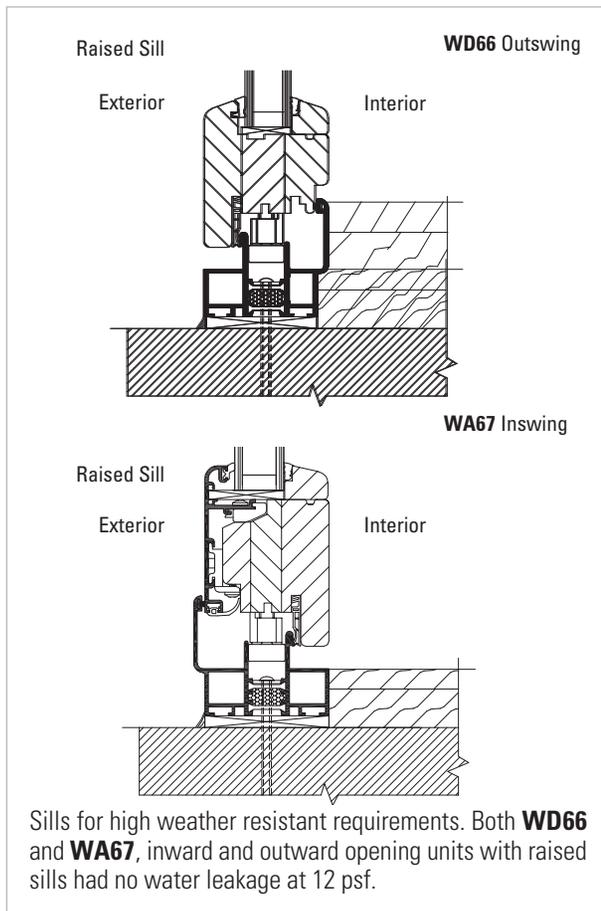
Built-in adjustment and compensation points ensure continued ease of operation if building settling occurs.

# Choices of NanaWall Wood and Clad Frames

Depending on the application, NanaWall offers three different wood profile systems to meet weather resistance, thermal performance, structural performance, size, function, stacking and aesthetic requirements.

System	Support	Max Panel Widths/Max Frame Heights <sup>1</sup>	Key Properties <sup>2</sup>
WD66	Top Hung or Floor Mounted	3'3" x 7'8" - 2'3" x 9'10"	Standard wood system, angle changes possible where panels meet, high weather testing results with the raised sill (inswing and outswing units tested to 12 psf). NFRC Certified, Energy Star rated with selected glazing, STC ratings.
WD65	Top Hung	3'7" x 8'6" - 3' x 10' <sup>3</sup>	Monumental wood system, angle changes, segmented curves and center pivot possible. NFRC Certified, Energy Star rated with selected glazing, STC ratings.
WA67	Top Hung or Floor Mounted	3'3" x 7'8" - 2'3" x 9'10"	Aluminum on the outside, wood on the inside, high weather testing results with the raised sill (inswing and outswing units tested to 12 psf). NFRC certified and Energy Star rated with selected glazing. The WA67T meets Passive House Standards with an NFRC certified U-value of 0.17.

<sup>1</sup> Maximum size depends on the combination of panel height, width and glazing. <sup>2</sup> As many factors, such as system, size of panels, direction of swing, configurations, type of sill, etc. can affect performance, please contact NanaWall Systems for detailed test results. <sup>3</sup> With horizontal mullions.



## WA67 Features and Benefits

- Maintenance free extruded aluminum exterior and the warmth of wood inside.
- Aluminum cladding attached using a back ventilated rain screen technique to protect and isolate the wood.
- Wood components are 100% solid wood of choice, cross-grained and triple laminated for strength.
- Suitable for both residential and commercial applications.



Schihutte Masner Bar, Austria  
 NanaWall Aluminum Framed Thermally Broken SL70 with triple glazing  
 Elevation 8,038 feet

## About NanaWall

NanaWall Systems provides operable glass wall systems for large architectural openings. NanaWalls are used in commercial and residential buildings for interior and exterior applications. The broad scope of the NanaWall product line offers the design professional unequalled freedom of choice and innovative design options. Every NanaWall is a single-source product with components designed, produced and assembled as a complete system of unparalleled quality and performance.

With over a million opening glass panels installed worldwide and 25 years of experience, NanaWall is the recognized industry leader trusted by architects, design professionals and owners alike to provide opening glass wall systems with countless style options, unsurpassed durability and superior performance—all based on a foundation of testing, research and innovation.

NanaWall Systems is located in Marin County, California with Design Studio & Showroom locations across North America. Our nationwide network of certified installers and service technicians ensure your custom-made NanaWall is properly installed. NanaWall is the exclusive North American partner of Solarlux Germany, the world leader in operable glass wall technology.



Single Track Sliding Glass Walls  
 One Head Track, One Floor Track or Trackless

NanaWall

For our product line brochures and photo idea books, please visit this address:  
[nanawall.com/brochure](http://nanawall.com/brochure)

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