

NanaWall SL25

The All Glass Opening Window Wall System with Aluminum Rails and Frame

The SL25 all glass opening window wall system is an exterior system that easily slides out-of-sight to make interior spaces completely open to the exterior.

Versatile and Functional

When closed, this system allows unobstructed views while providing maximum weather protection from a balcony, stadium suite, or other similar application. This system offers the designer new dimensions in creating large, exterior glass windows with both panoramic views and weather protection.

In apartment settings, for example, the SL25 effectively increases apartment space, providing high-rise residents with a functional and comfortable balcony area in which to relax, entertain, or set up patio gardens.

Noise-resistant

Soundproof NanaWalls can shut out the inevitable noises of the busy urban environment, creating an oasis of calm when desired. The NanaWall SL25 with 1/4" (6 mm) tempered glass achieved an STC value of 10.

Weather-resistant

When shut, the weather-resistant panels of the SL25 protect against wind, rain and snow. Partially or fully opened, they allow NanaWall users to enjoy sunshine, breezes and the natural environment.

Creating Comfort and Lowered Energy Costs

The durability and flexibility of the SL25 NanaWall also improves the overall ambience, providing more temperate interiors and reduced energy consumption.

Structural Protection

Building owners will appreciate the many structural benefits of the SL25. For example, in addition to cutting down energy costs, by protecting the building structure from the wear and tear of the elements, NanaWalls reduce deterioration – hence saving money in costly repairwork.

Design Freedom

Custom sizes - heights up to 8'6" (2600 mm) and panel widths up to 2'7" (800 mm) with unlimited number of panels possible. Glazing is single glass with a thickness of

either 1/4" (6 mm) or 5/16" (8 mm). Besides straight segments, open corners from 90° to 180°, as well as segmented angled turns to enclose circular areas, are possible. Panels can be stacked to the right and/or to the left side of the opening.

Choice of Finishes

A choice of hundreds of high quality powder coated and anodized finishes is available for the aluminum frame and panel rails; see "Aluminum Finish Options" in the General Introduction.

Secure with Patented Locking Hardware

Two point locking with concealed top and bottom latches that operates by pull of a spring tensioned cable secures the first panel to be opened (US Patent No. 6,618,994). Other panels are secured by carriers at each upper corner and guides at each bottom corner.

Simplified Installation

With an adjustable head jamb, the SL25 System can be installed to fit into existing openings that may not be level.

Continued, Long-Term Satisfactory Operation

Ease of operation to quickly open or close as the two carrier suspension system allows each single panel to be easily slid. State-of-the-art hardware with sealed ball bearing carriers. Long term ease of operation with adjustable head jamb.

Complete Single Sourced System

A complete, precision built system with pre-fitted hardware is supplied.

Complete Coordinated Glass Wall

With the SL25, a coordinated glass wall can be provided with SL45 matching fixed windows, transoms, and tilt-turn windows. For adjacent walls, matching folding and French doors can also be provided.

Motorized Screens

For openings up to 26' wide, the Opening Screen Wall, an automatic, retractable, exterior, overhead, sun/insect screen is available as an option. The system has been designed such that it is out of view when not in use.

Technical Description

General Description

The all glass SL25 is an individual, single panel sliding system on a single track with no stiles but with aluminum rails and frame. Any custom panel size within the limitation of the Panel Size Chart is possible. Weight of a sliding panel is not to exceed 70 kg or 154 lbs. An end panel, on the side where panels stack, is a swing panel; many configurations possible; see *"Possible Configurations" for possibilities*. Maximum possible weight of a sliding panel is 70 kgs or 154 lbs. Stack must be 90°.

Frames & Panels

The nominal head jamb thickness is 1 3/4" (45 mm), the nominal bottom track thickness is 2 1/16" (53 mm) and the nominal side jamb thickness is 1 5/16" (34 mm) of extruded aluminum. The nominal thickness of the height compensating profile above the head jamb is 2" (50 mm). All pins and screws to assemble the frame are provided. The rails of the sliding panels and swing panels are extruded aluminum with nominal panel thickness of 1 1/16" (27 mm).

Finishes

Standard finishes available are clear or dark bronze anodized, dark brown or white powder coated. Custom finishes can be chosen from a range of anodized finishes and

over two hundred RAL powder coated colors as listed in "Aluminum Finish Options" in the General Introduction.

Glazing

Units can be supplied glazed with either 1/4" (6 mm) or 5/16" (8 mm) thick single tempered glass.

Weatherstripping

As shown in cross-section drawings, all weather stripping consisting of APTK and brush seals are provided for sealing between panels and frame.

Sliding/Folding Hardware

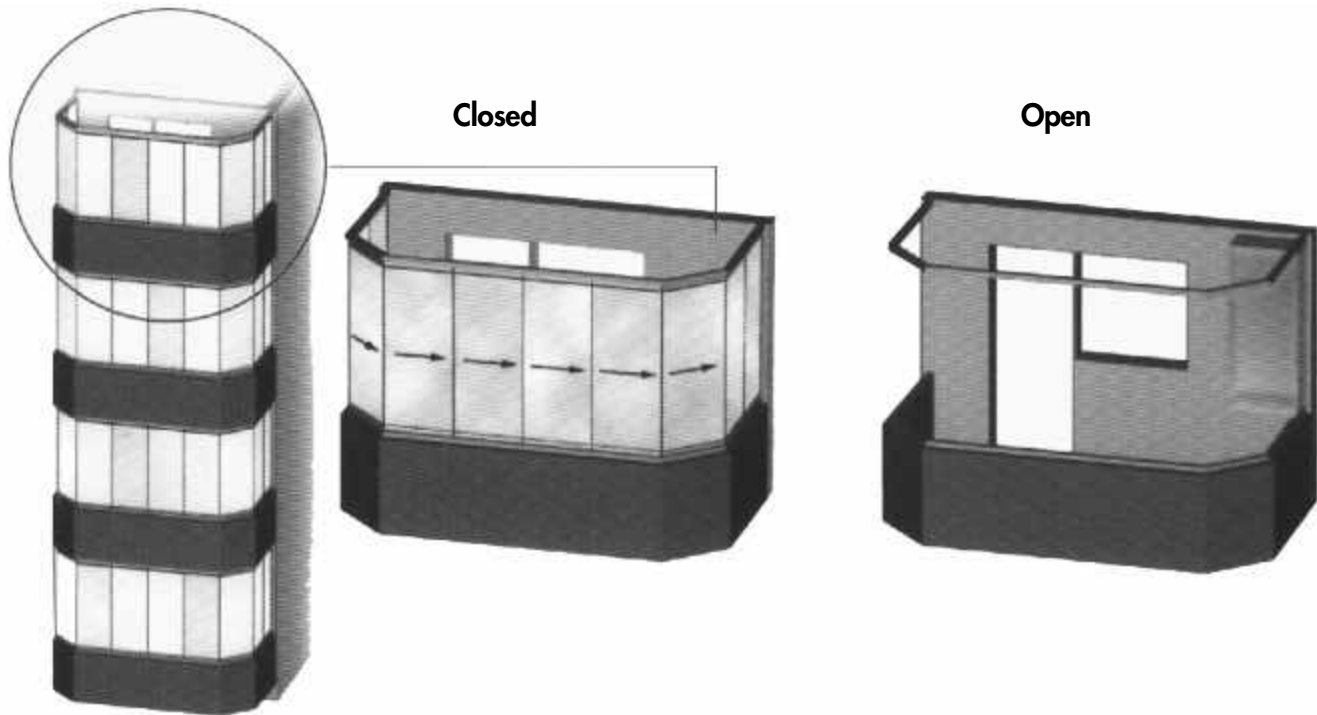
For sliding, attached to the upper corners of each panel are load bearing stainless steel uni-directional carriers with two rollers each. Each roller has sealed bearings and is coated with toughened Polyamide to ensure sound free running and resistance to extreme temperature.

Patented Locking Hardware

Two point locking with concealed top and bottom latches that operates by pull of a spring tensioned cable secures the first panel to be opened (US Patent No, 6,618,994).



Balcony Application



4 Panel Unit Example

Unit in Closed Position

Unit in Open Position



Performance of the NanaWall SL25 - Testing Results

Excerpts of results of unit tested by an independent laboratory in Germany:

Test Lab:	Forschungs-und Materialpruefungsanstalt fuer das Bauwesen (FMPA), Otto Graf Institute of Stuttgart, Stuttgart, Germany.
Certificate #:	25-31188 dated February 2, 2000.
Unit:	Four panel unit with panel width of 31 1/2" (800 mm) and panel height of 70 7/8" (1,800 mm).
Glazing:	5/16" (8 mm) Tempered - Heat Soaked
Windloads:	18,000 cycles of positive and negative pressure up to 1,100 Pascal (23 psf or 95 mph) - both directions - pass
Mechanical Testing:	10,000 cycles of opening and closing - pass
Impact Test:	Sand bag (weight of 45 kg (99 lbs) dropped from a 30 degree angle with a pendulum swing of 1.2 m (47 1/4") - pass Meets requirements of Stress Classification Group C, which means in Germany the unit can be installed in buildings up to 100 m (327 ft.) high.
Acoustical Performance:	The NANAWALL SL25 with 1/4" tempered glass achieved an STC value of 10.
U.S. Testing:	Pending



Some Possible Configurations

As there can be many other possibilities, please submit your ideas and sketches to Nana Wall Systems, Inc. for evaluation.

