NanaWall HSW66 Single Track Sliding System - Wood

NanaWall®
Boundaries **Unbound**®

NanaWall HSW66 The Wood Framed Single Track Sliding System

The NanaWall HSW66 is a wood-framed single track sliding system designed to provide an opening glass wall or storefront with any custom panel size within the limitation of the Maximum Size Chart. Different panel widths are possible.

Single Track, Top Hung Systems

When closed, all panels are on a single track, eliminating the need for bulky multi tracks and hence, thick walls.

Virtually Unlimited Number of Panels

The number of panels is restricted only by structural steel constraints. Even if there are structural posts, tracks can be laid to the inside or outside of the posts to allow sliding of the panels beyond the posts.

Panels Can Be Taken Out of the Plane of the Opening

The glasswall can be completely out of site. The tracks can be laid out beyond the frame of the opening in a variety of configurations. The stacking bays can be positioned anywhere along the track which makes remote storage possible.

Single Hand Easy Operation In/Out of Stacking Bay

With an intelligent guide system, most panels self-guide through the switches for easy operation and stacking.

Right Turns and Segmented Curved Walls

With an angle astragal profile, systems can accommodate any segmented angle between 0º and 90º between panels allowing the designer to create open corners or bays. Panels can turn corners.

Multiple Space Set-Up

Using the same panels with additional parallel and perpendicular tracks will expand or reduce heated or air conditioned spaces with ease and convenience.

Floor Track Optional

For certain applications, sills can be eliminated completely—providing a seamless transition between two spaces. Locking rods in panels engage in adjustable floor sockets.

Swing Panels Possible

An end panel can be a swing panel hinged to a side jamb or in the SwingSlide option, a swing panel can be a middle panel that is hinged from a sliding panel. Swing panels are single acting but can be either inward or outward opening. For any swing panel, an appropriate number of clear or dark bronze anodized hinges is provided. Possible configurations and stacking bay options are virtually limitless; see drawings for possibilities.

Weather Resistant

- High performance levels for air infiltration, water penetration, structural & thermal performance, and forced entry with independent testing per AAMA/WDMA/CSA 100/I.S.2/A440, NAFS – North American Fenestration Standard. See Performance Testing Results pages.
- Sustainable design features: energy efficiency, natural day lighting, and passive ventilation.

NFRC Rated Thermal Performance

The HSW66 has been rated, certified, and labeled in accordance with NFRC 100 and NFRC 200; see the “Performance and Testing Results” section for more details.

Engineering Benefits

- The wall can be very easily moved since each panel is moved independently and is not hooked to other panels.
- The main weight is borne by the top track, which ensures smooth operation. There is no groove in the bottom track.
- Operation is quiet and rattle-resistant because of sealed, ball bearing multi-roller running carriages.
- Long-term ease of use with compensation and adjustment features.

Secure

Concealed multiple-point locking operates with a turn of a handle. The bottom shoot bolt between each sliding panel has a full 1" (24 mm) throw. The top bolts interlock into striker slots in the adjacent panel, and the lower bolts are thrown into striker plates. No surface mounted flush bolts.

Continued, Long-Term Satisfactory Operation

Quickly open or close panels. Two carrier suspension system allows each single panel to be easily slid. State-of-the-art hardware with sealed ball bearing carriers. Variable interlocking of profiles minimizes expansion problems. Long term ease of operation with compensation and adjustment features. Simple to align sliding panels.

Design Flexibility

Custom sizes of unit heights up to 10' (3050 mm) and panel widths up to 5' (1525 mm) are possible. There are a variety of glazing choices (single glass, double insulating glass, triple insulating glass, laminated glass, etc.) and a large selection of muntin layouts (horizontal mullions, SDLs, solid panels, higher bottom rails, etc.).

Cross-Grained Solid Wood

Only cross-grained, solid, triple-laminated wood is used. No veneers are used.

Choice of Quality Woods and Wood Finishes

Choose from Sapeli Mahogany, Meranti, and European Pine with environmentally friendly sanding sealer or base coat applied. PEFC certified wood is available.

Hardware Options

A choice of different locking options are available depending on need. Different handle finishes and custodial hardware are also available.

Outstanding Appearance

European styling and handsome, sleek lines allow glass areas to be maximized. All sliding and locking hardware is integrated into the profiles for a clean, harmonious look. No surface mounted hinges.

Complete System

Complete, precision built systems with pre-fitted hardware are supplied.

Coordinated Glass Walls

With the WD joining systems, coordinated glass walls can be provided with matching folding doors and windows, matching French doors, transoms, side lites, and corner posts.

General Description

The NanaWall HSW66 is a wood-framed single track sliding system designed to provide an opening glass wall or storefront with any custom panel size within the limitation of the Maximum Size Chart. Different panel widths are possible. An end panel can be a swing panel hinged to a side jamb or in the SwingSlide option, a swing panel can be a middle panel that is hinged from a sliding panel. Swing panels are single acting but can be either inward or outward opening. Possible configurations and stacking bay options are virtually limitless; see drawings for possibilities.

Frame, Tracks and Stacking Bays

The aluminum head track thickness is 2 9/16" (65 mm). Optional cover plated on both sides with/out wood fascias can be provided. The wood side jamb thickness is 2 5/8" (66 mm). All pin and screws needed to assemble the frame are provided. Various sill options are available in a clear or bronze anodized finish. Also available is a no sill option with floor sockets only. The stacking bay and the upper track leading to the stacking bay are the same profile as the head track. The switching of panels from the closed position in the opening to the stacking bay can be achieved in different ways; see the drawings for possibilities.

Panels

The stiles and rails of sliding panels with interlocking tongue-and-groove profiles have a nominal panel thickness of 2 5/8" (66 mm). Standard woods are Sapeli Mahogany, European Pine, and Meranti. Contact NanaWall for other wood options. Frames and panels have a sanding sealer or a base coat applied to be field finished by others. Panels are pre-assembled and can be different widths, but stacking bays will need extra tracks to accommodate these widths.

Glazing

Glazed units can be supplied with 15/16" (24 mm) clear insulating safety, insulating Low-E safety glass, 1 1/8" (28 mm) triple glazing Low-E safety, 1/4" (6 mm) tempered, laminated, other high performing safety glass such as special tint, etc or other glass on request.

Weatherstripping

Double APTK weather stripping is provided for vertical sealing between panels and between panel and frame; see cross-section drawings. Brush seals with flexible plastic web are provided for all horizontal seals.

Sliding Hardware

For sliding, two load-bearing stainless steel unidirectional carriers are attached to the upper corners of each panel. Each carrier has one glide-roller and two/three horizontal counter-rotating wheels that roll in the track. Each wheel is made from sintered bronze (oil impregnated) that is self-lubricating and is attached to the panels with stainless steel rods. Carriers can easily negotiate square or angled corners.

Swing Panel Hardware

For any swing panel, an appropriate quantity of clear or dark bronze anodized hinges is provided.

Locking Hardware

On all swing panels and on sliding panels as needed, a two-point locking hardware is provided, consisting of top and bottom locking rods operated by a 180° turn of a flat handle on the inside only. On sliding panels, the top rod interlocks the male locking receptacle with the female receptacle of the adjacent panel. The lower rod is thrown into a designated striker plate. If there are swing panels, there are the following additional hardware options.

1. Lever Handle Operation. Consisting of lever handles on both sides, a lockset, lockable latch, deadbolt, and rods at the top and the bottom. After turn of key or thumbturn, depression of handles withdraws latch, lifting of handles engages rods and turn of key or thumbturn engages deadbolt and locks. Available with profile cylinder or with SFIC adapter.

2. Push/Pull Handle Operation. Consisting of push/pull handles on both sides with deadbolt(s) operated by a lockset. Turn of key or thumb turn operates lock. Lockset option of having key operation on both sides. To keep the panel closed, a door closer should be field installed.

3. Panic Hardware Operation. For panic hardware to be installed by others, outward opening swing panels can be supplied with no locking hardware.

For a unit with no swing panels, an option to enable a unit to be opened from the outside is to provide on the sliding panel to be opened first: Two-point locking hardware consisting of top and bottom Polyamide capped locking rods operated by a 180° turn of a L-shaped handle on the inside and lockable with a thumbturn or a flat handle on the inside and lockable with a key. In both cases, there will be a flat handle on the outside that is lockable with a key. Please note that locking from the inside with a key will not meet egress requirements.

Handle Finish Schemes:

Standard - Stainless steel lever, flat, and L-shaped handles in brushed satin or black titanium.

Optional - Lever handles in anti-viral/anti-microbial copper-nickel finish. Brass lever handles in oil rubbed or satin nickel and flat handles in powdercoated dark brown or silver gray finish.

Push/pull handles are in brushed stainless steel finish.

HSW66

TYPE OF TEST	RESULTS
Air Infiltration ① ASTM E-283, cfm/ft²	@ 1.56 psf (75 Pa): 0.12 @ 6.24 psf (300 Pa): 0.30 A2 ①
Water Penetration ① ASTM E-547 and ASTM E-331 ***(With low profile saddle sill only)***	Unit with weep holes from inner channel: **No uncontrolled water entry** @ 5 psf (240 Pa) Subject to the following adaptations of the sill in the field by others: 1. Remove the gaskets covering the inner channel. 2. Drill weep holes through the bottom of this channel (about one 3/8" diameter weep hole per panel). 3. Drill weep holes through the lower front face of the sill to the inner channel bottom (about 3/8" weep hole per panel). Please note that due to varying site requirements and conditions, these sills will not be prepared for drainage by NanaWall Systems, Inc. If this drainage system is desired, we recommend that a qualified professional construct this system on the project site that is strictly in accordance with instructions provided by NanaWall Systems, Inc. and in accordance with good waterproofing techniques. If drain connections are not made, or are not possible, unit may leak with wind driven rain.
Structural Load Deflection ASTM E-330: pass **See Design Windload Charts for other sized panels** *Note that the structural test pressures were 50% higher than the design pressures.*	**DESIGN PRESSURE** Positive: @ 41 psf (2000 Pa) Negative: @ 41 psf (2000 Pa) For saddle sill specimen #2 above, class SP-PG30 (weep holes by others), panel size - 3' 1" x 8' (934 mm x 2448 mm) ②
Forced Entry Resistance ①	In accordance with AAMA-1304 requirements

① Excerpts of results of a 12'9" W x 8'7 1/2" H four panel HSW66 unit (1 swing panel attached to a sliding panel and 2 sliding panels. 1 sliding panel has offset detail 6.12 on 1 side) with Low Profile Saddle Sill tested by Architectural Testing, Inc., Fresno, CA, an independent testing laboratory in April 2013 per AAMA/WDMA/CSA 101/I.S.2/A440, NAFS - North American Fenestration Standard.

② For Canada, tested to NAFS-08 or equivalent and CSA A44051-09.

Thermal Performance

Rated, certified and labeled in accordance with NFRC 100 + 200

			STANDARD FLUSH SILL				LOW PROFILE SADDLE SILL				SOCKETS ONLY			
TYPE OF GLASS (1 LITE) ③	CENTER OF GLASS U-FACTOR	GLASS THICKNESS	UNIT U-FACTOR	SHCC ④	VT ⑤	2015 ENERGY STAR	UNIT U-FACTOR	SHCC ④	VT ⑤	2015 ENERGY STAR	UNIT U-FACTOR	SHCC ④	VT ⑤	2015 ENERGY STAR
Double IG Clear (air filled)	.48	15/16" (24 mm)	.43	.44	.47	–	.44	.44	.47	–	.43	.44	.47	–
Double IG Standard Low E (argon filled)	.26	15/16" (24 mm)	.30	.20	.41	*	.31	.20	.41	–	.30	.20	.41	*
Double IG Standard Low E (air filled)	.30	15/16" (24 mm)	.33	.21	.41	–	.33	.21	.41	_	.33	.21	.41	–
Triple IG Low E x 2 (argon filled)	.13	1 1/8" (28 mm)	.25	.17	.32	*	.26	.17	.32	*	.25	.17	.32	*
Triple IG Low E x 2 (air filled)	.16	1 1/8" (28 mm)	.28	.18	.32	*	.29	.18	.32	*	.28	.18	.32	*
1/4" single	1.02	1/4" (6 mm)	.74	.49	.51	–	.74	.49	.51	–	.73	.49	.51	–

NOTES

③ NFRC simulated U factors of units with a horizontal mullion will have values of .01 to .03 higher than units with no horizontal mullion. Please contact NanaWall for details.

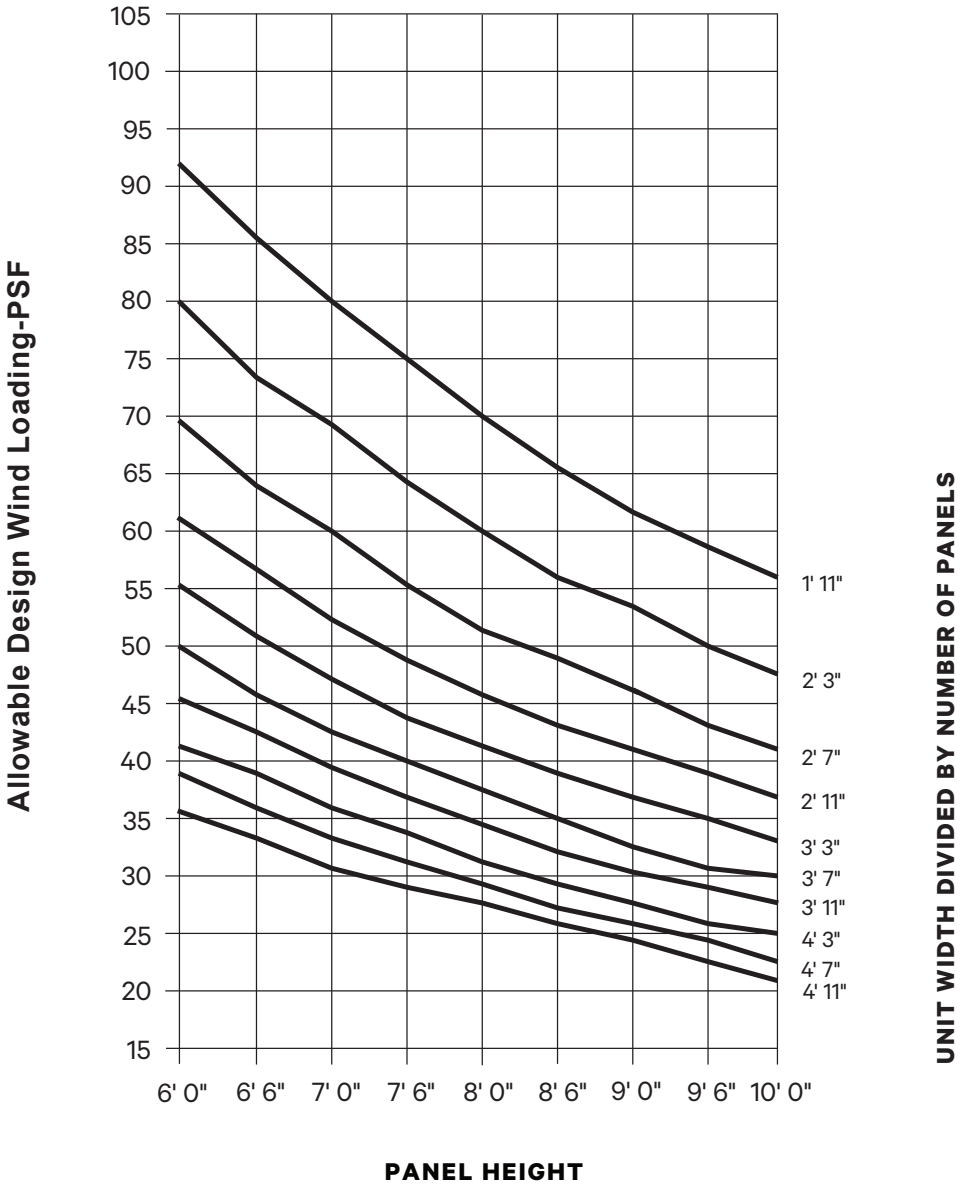
④ SHGC = Solar Heat Gain Coefficient
⑤ VT = Visible Transmittance

* A 2015 Energy Star Qualification Criteria: U-Factor for doors in all climate zones <.30, SHGC <.25 in South/South central zones and <.40 in North/North Central zones. (For guidance only. NanaWall is not a participant of the Energy Star program.)

Call NanaWall for U-Factor & SHGC for other glass types.

Applies to Both Positive and Negative Design Pressures

(In Accordance with Allowable Stress Design (ASD) Design Pressures*)

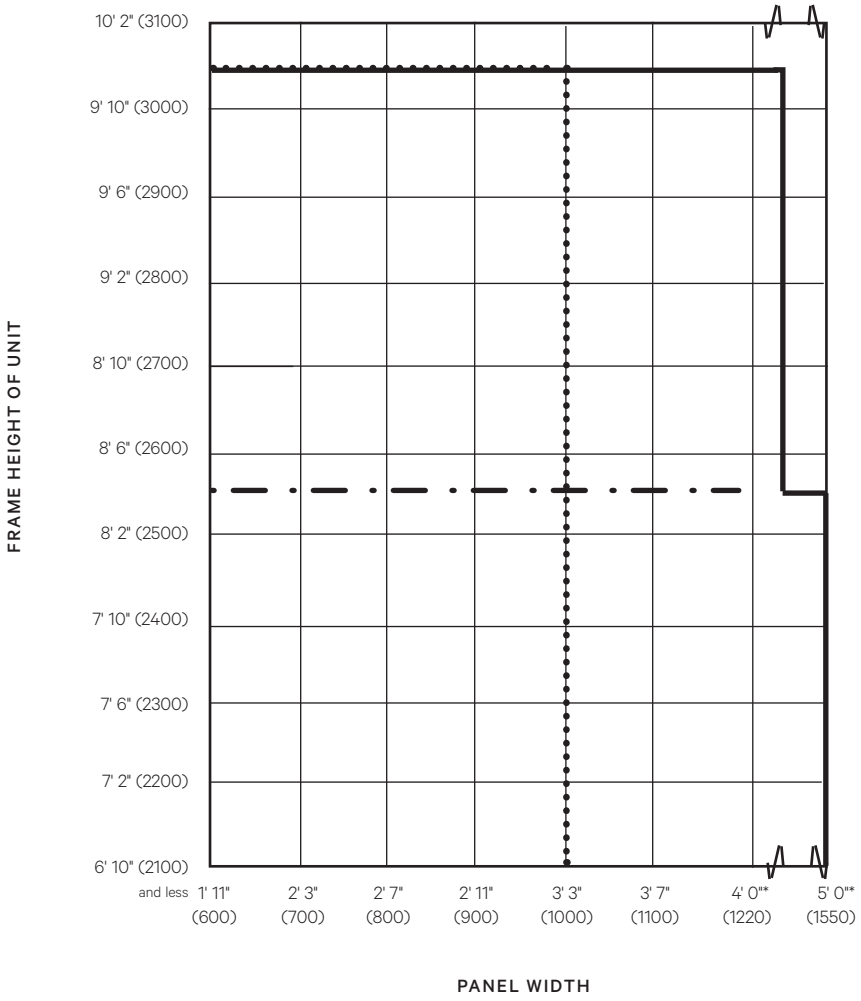


Any Custom Size is Possible. See Maximum Frame Size Chart for Possible Sizes.

Standard Unit (Derived from Comparative Analysis) Test Panel Size: 38 1/2" W x 96" H.
Please note that some jurisdictions may limit the use of these charts or may not accept them at all. Design pressures and/or sizes may be restricted to what was tested. This chart is only applicable for units with referenced NanaWall supplied locking.

* If the project design pressures have been calculated in accordance with Ultimate Design Wind Speed (ULT), then these design pressures have to be multiplied by a factor of 0.6 to obtain the equivalent ASD design pressures shown in this chart.

NOTE: English Dimensions are approximate.
Dimensions in parenthesis are in millimeters



The number of panels possible in a system are unlimited.

Any custom panel size is possible up to the maximum size shown. Note the chart shows maximum unit height, not maximum panel height.

———— : Indicates maximum unit height and width of a **sliding panel**

. . . . . : Indicates maximum unit height and width of a **swing panel**

. — . — . : For triple glazed panels for heights above 8' 4" (2550 mm) a horizontal mullion is needed, located such that no glass pane height is more than 7' 10" (2400 mm).

The total number of panels in a unit is only restricted by structural steel consideration.

Generally, the minimum width of each panel is 1' 11" (600 mm).

The maximum size limits are based on the weight of insulated glass with a net glass thickness of 1/2" or 12 mm. If thicker net glass is used on a panel, this maximum size chart will not apply. Please consult with NanaWall.

Each application is different so please consult with NanaWall on possibilities.

The unit width is the panel width multiplied by the number of panels.

* For panel widths wider than 4' 0" (1220 mm) and less than 5' 0" (1550 mm), there are the following limitations:

1. It is only possible with certain stacking concepts. Please check with NanaWall.
2. A horizontal mullion is needed.
3. Triple glazed panels are not possible.

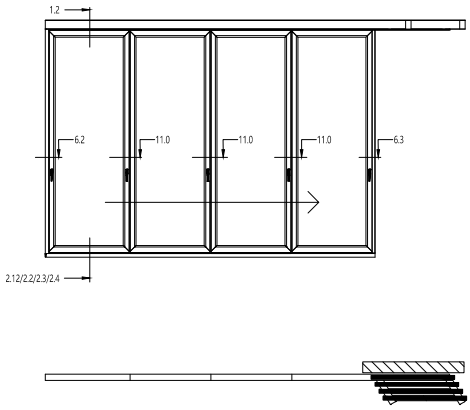
The HSW66 BeyondLiftSlide and SwingSlide systems are two specific stacking / operation concepts from the HSW66 family of unlimited stacking / operation concepts that are described separately.

HSW66 BeyondLiftSlide

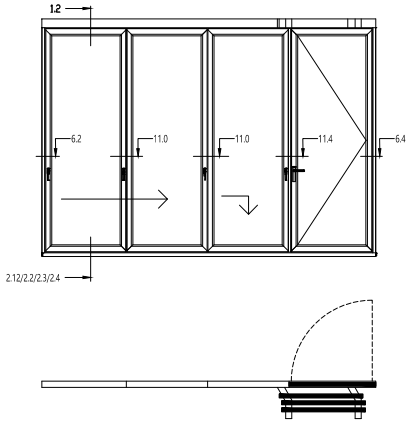
Panels are stacked parallel to the opening either within the opening or beyond the opening in a “pocket”. If stacked beyond the opening, the unit is installed offset from the wall on either one side or both sides with extended tracks. This stacking area can be closed with walls, thus creating a “pocket” stacking.

Elevation drawings and plan views of typical possible stacking concepts. Please see referenced cross-section details. If needed, NanaWall Systems can provide a 3D Conceptual Drawing to help in the design / development process. As there can be many other stacking possibilities, please submit your ideas and sketches to NanaWall Systems, Inc. for evaluation. **Please note that the number of panels in a system are unlimited.**

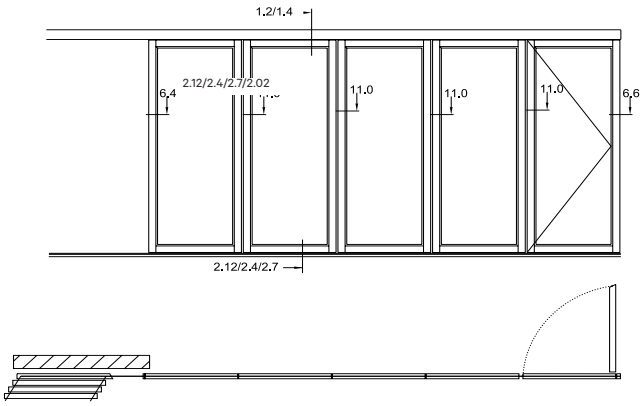
Concept C
Parallel stacking with an extended track. Unit is offset from the wall opening.



Concept J
Parallel stacking in the opening with end swing panel.



BeyondLiftSlide - Concept 3C
Parallel stacking with extended track. Unit offset from wall opening. With swing panel attached to side jamb on other side.

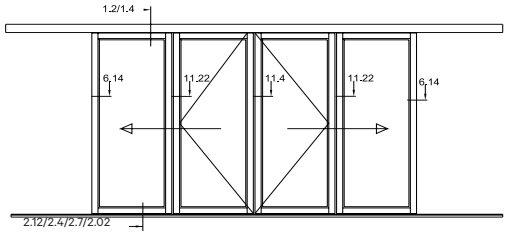


The HSW66 BeyondLiftSlide and Swing Slide systems are two specific stacking / operation concepts from the HSW66 family of unlimited stacking / operation concepts that are described separately.

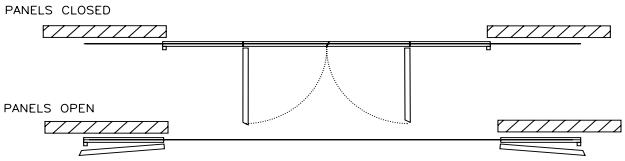
HSW66 SwingSlide

The SwingSlide is a similar concept to the BeyondLiftSlide with the added benefit of being able to have middle panels as swing doors. They look like a normal pair of French doors with fixed sidelights. The center swing doors provide all the functional and aesthetic benefits of French doors. The NanaWall advantage, though, is that the pair of single acting operable doors and the one or more "sidelights" can also slide away to create unobstructed openings as wide as you can imagine.

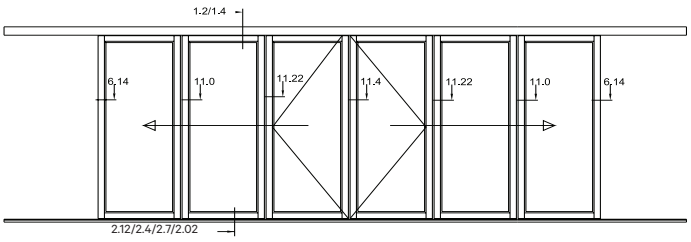
Elevation drawings and plan views of typical possible stacking concepts. Please see referenced cross-section details. As there can be many other stacking possibilities, please submit your ideas and sketches to NanaWall Systems, Inc. for evaluation. **Please note that the number of panels in a system are unlimited. (Stile widths of SwingSlide units are standard 3 3/4" (95 mm)).**

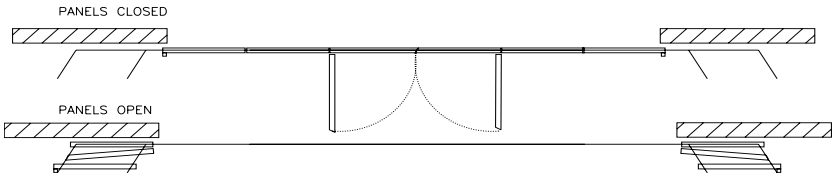


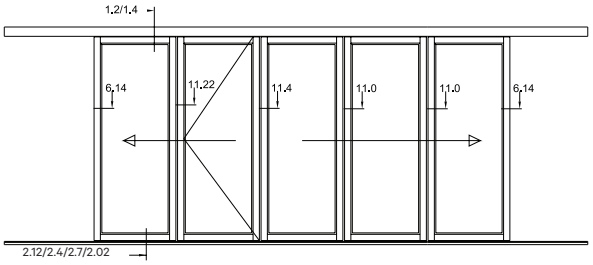
SwingSlide - Concept 7A
Center Swing panels hinged off sliding panels



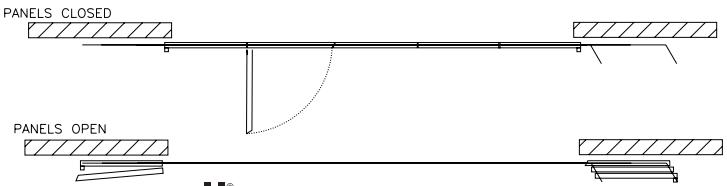
SwingSlide - Concept 7B
Center Swing panels hinged off sliding panels - more than one sliding panel on each side (with saddle sill for exterior applications using Detail 6.14 at ends. For interior applications, use Detail 6.13),





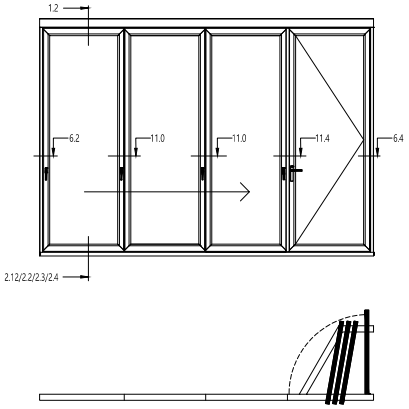


SwingSlide - Concept 7C
Center Swing panel hinged off sliding panel - one side only - other side is BeyondLiftSlide stacking



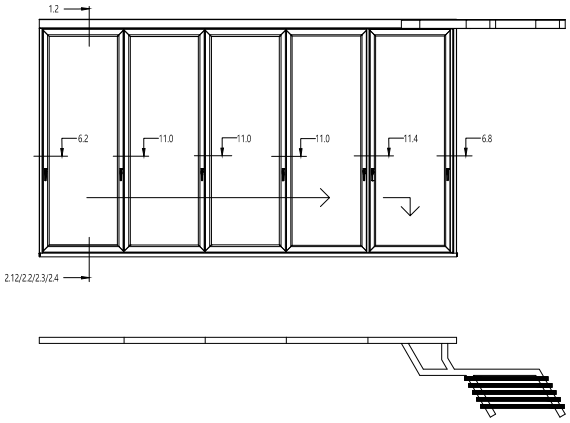
Elevation drawings and plan views of typical possible stacking concepts. Please see referenced cross-section details. As there can be many other stacking possibilities, please submit your ideas and sketches to NanaWall Systems, Inc. for evaluation. If needed, NanaWall Systems can provide a 3D Conceptual Drawing to help in the design / development process. **Please note that the number of panels in a system are unlimited.**

A switch is defined as a break in the upper track at the head track to lead panels away from the opening to the stacking bay.

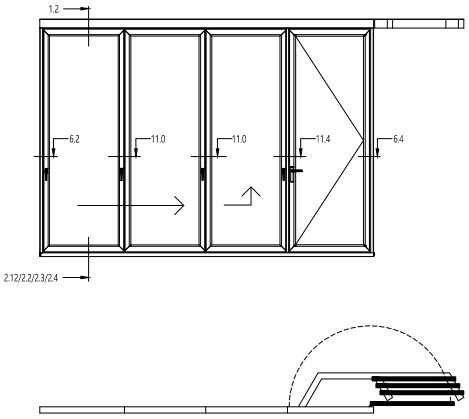


Concept A (1)
Perpendicular stacking in opening with end Swing Panel.

Concept B (2)
Parallel remote stacking. See concept L, M, and N for variations.



Concept E
Parallel remote stacking with end swing panel opened completely. See concept G for variation..



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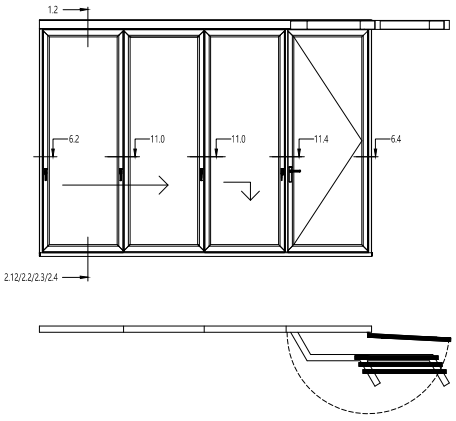
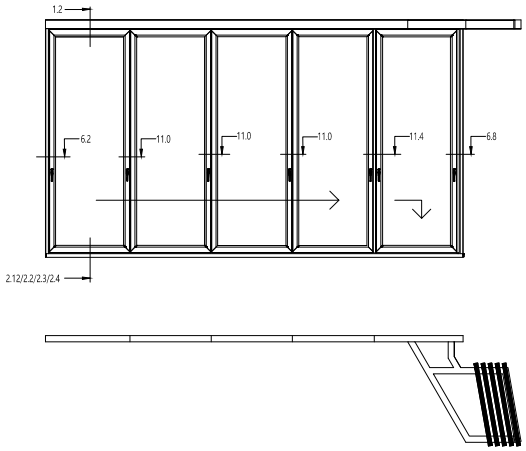
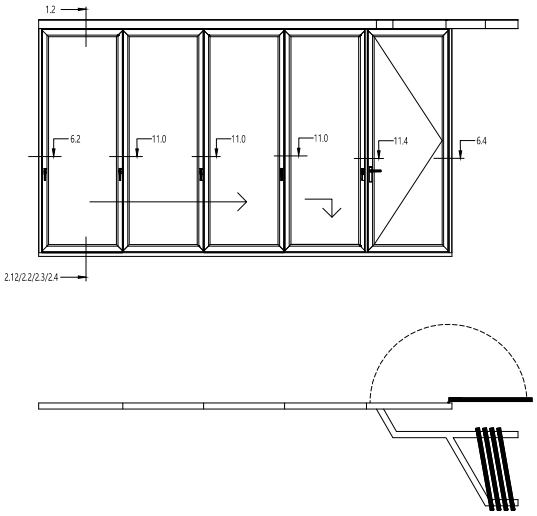
A switch is defined as a break in the upper track at the head track to lead panels away from the opening to the stacking bay.

Concept G
Parallel remote stacking with end swing panel opened completely. See concept E for variations..



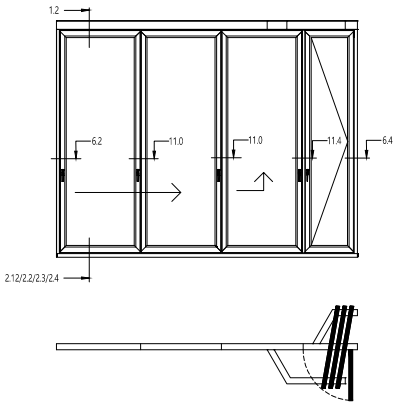
Concept H
Remote Perpendicular stacking.



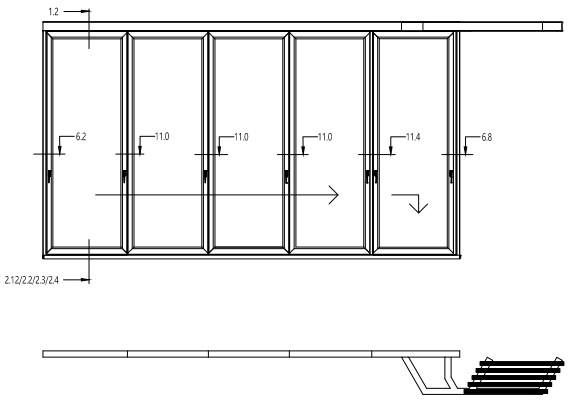


Concept I
End swing panel and remote perpendicular stacking. See concept H for variation.

Concept K
Split stacking within opening (has no air or accoustic rating)



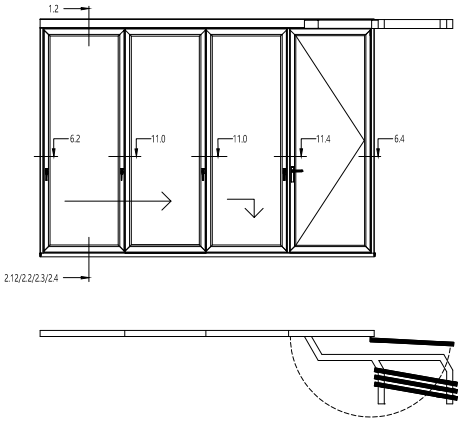
Concept L
Parallel stacking.



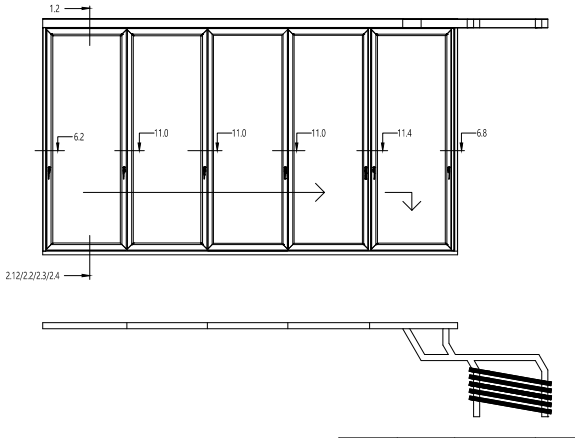
Elevation drawings and plan views of typical possible stacking concepts. Please see referenced cross-section details. As there can be many other stacking possibilities, please submit your ideas and sketches to NanaWall Systems, Inc. for evaluation. If needed, NanaWall Systems can provide a 3D Conceptual Drawing to help in the design / development process. **Please note that the number of panels in a system are unlimited.**

A switch is defined as a break in the upper track at the head track to lead panels away from the opening to the stacking bay.

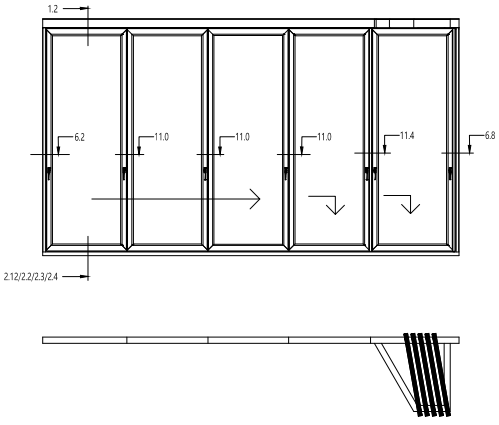
Concept M
Parallel remote stacking with stacking head track legs perpendicular to the opening.



Concept N
Parallel remote stacking.



Concept O
Perpendicular stacking in opening.



Folding Door / Window Combination in One Unit - Without Fixed Post
(NanaWall Kitchen Transition)

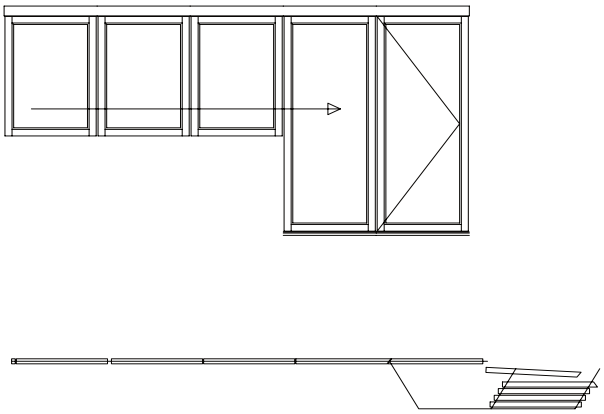
This is a custom window - door combination that opens wide, seamlessly turning an existing kitchen into an indoor / outdoor space. Can also be used in other types of applications. If needed, NanaWall Systems can provide a 3D Conceptual Drawing to help in the design / development process. Please note that below are examples with just two of the HSW stacking concepts. Door / Window combinations are also possible with other stacking concepts.

Please note some limitations as follows:

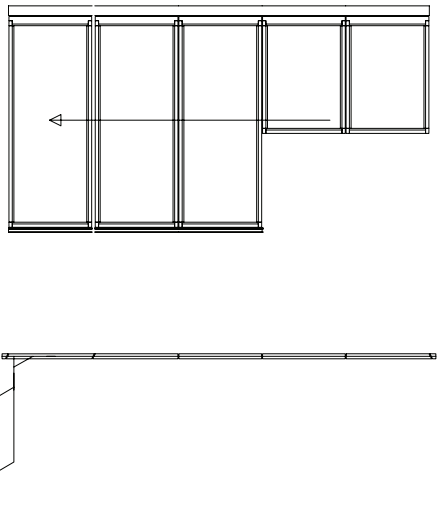
1. It is only possible with certain configurations and sills.
2. Lower corner where window meets door will not be as weather resistant as compared to a unit with all panels equal in height.
3. Handle heights of the door unit and window unit may be different.

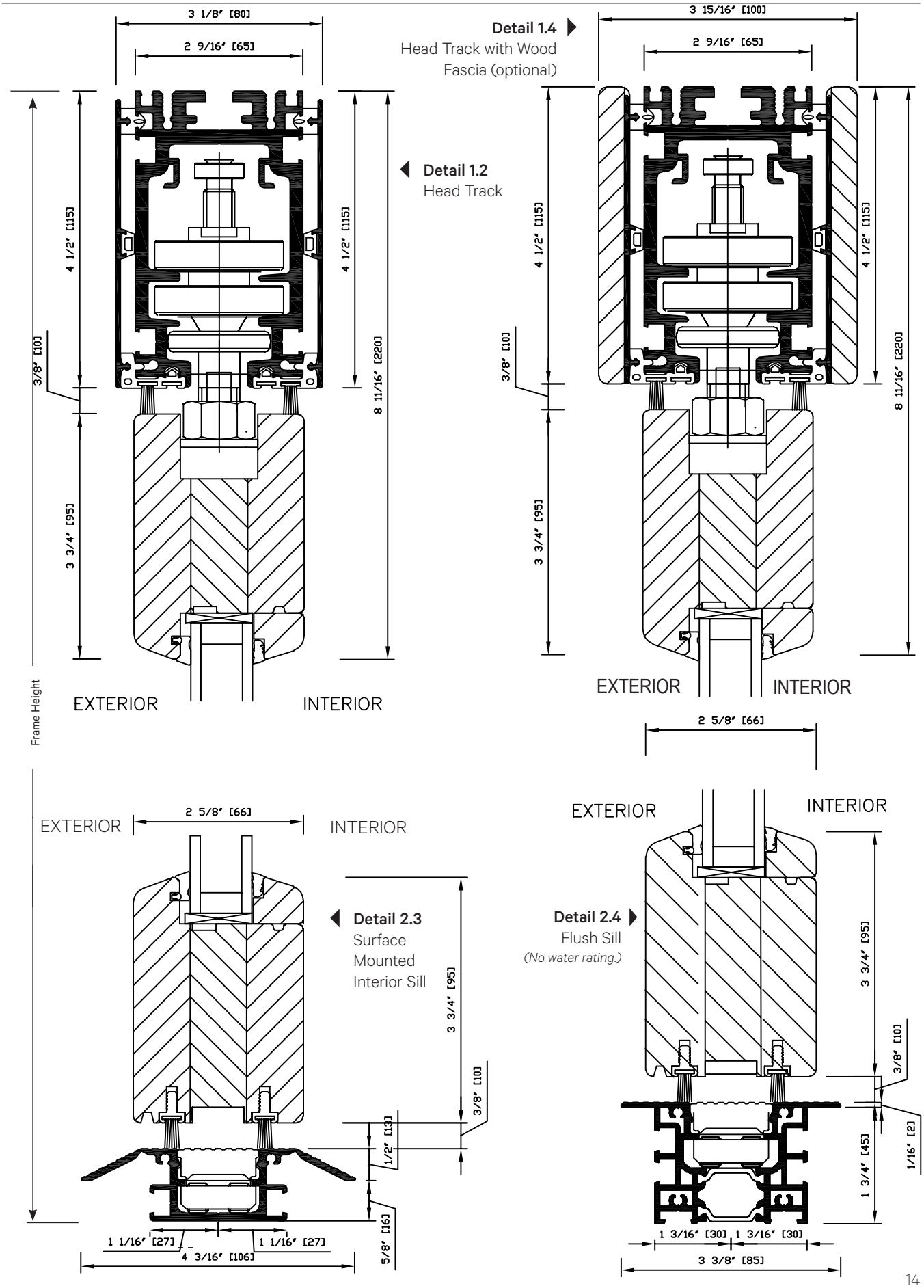
Elevations looking from Inside.

Concept 4DW
Door / Window Combination Unit with parallel stacking outside the opening in front of Swing Panel attached to side jamb that is fully opened.

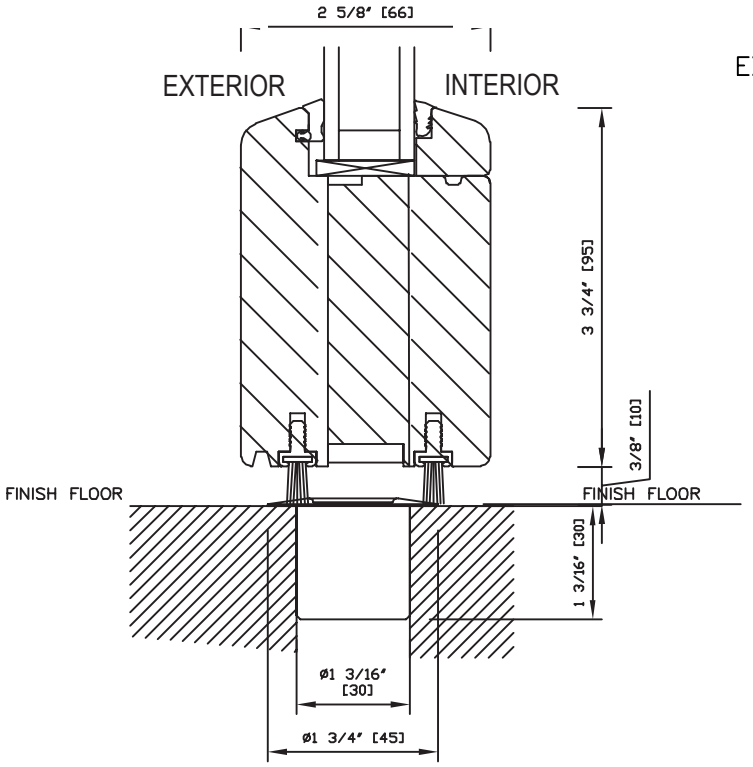


Concept 6DW
Door / Window Combination Unit with perpendicular stacking outside the opening.

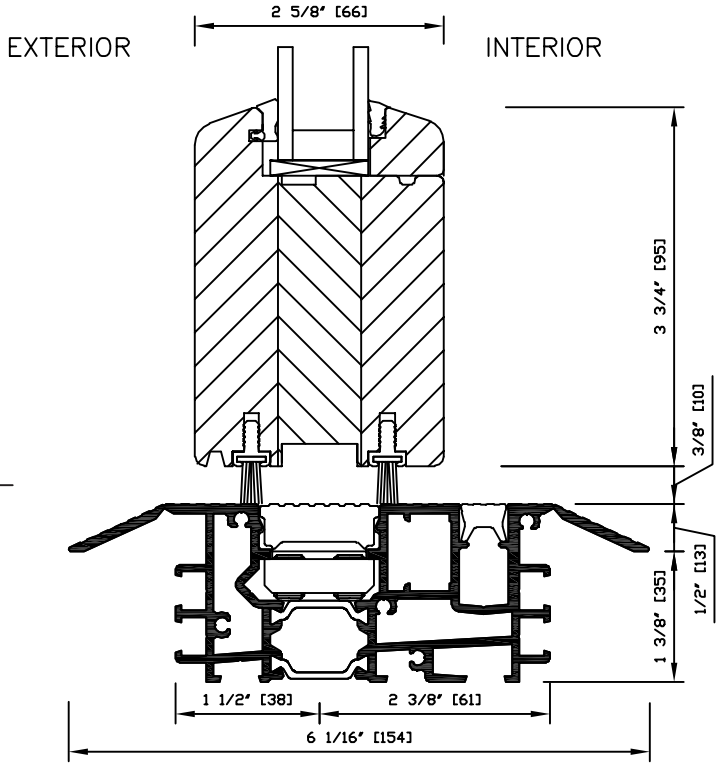


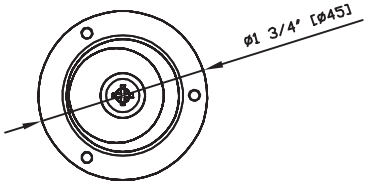

3 1/8" [80]
2 9/16" [65]
4 1/2" [115]
3/8" [10]
3 3/4" [95]
4 1/2" [115]
8 11/16" [220]
EXTERIOR
INTERIOR
Frame Height
Detail 1.2
Head Track
Detail 1.4
Head Track with Wood
Fascia (optional)
3 15/16" [100]
2 9/16" [65]
4 1/2" [115]
3/8" [10]
3 3/4" [95]
4 1/2" [115]
8 11/16" [220]
EXTERIOR
INTERIOR
2 5/8" [66]
EXTERIOR
INTERIOR
2 5/8" [66]
Detail 2.3
Surface
Mounted
Interior Sill
3 3/4" [95]
3/8" [10]
1/2" [13]
5/8" [16]
1 1/16" [27]
1 1/16" [27]
4 3/16" [106]
EXTERIOR
INTERIOR
Detail 2.4
Flush Sill
(No water rating.)
3 3/4" [95]
3/8" [10]
1/16" [2]
1 3/4" [45]
1 3/16" [30]
1 3/16" [30]
3 3/8" [85]

Detail 2.7 No Sill Adjustable floor socket
(No water rating.)

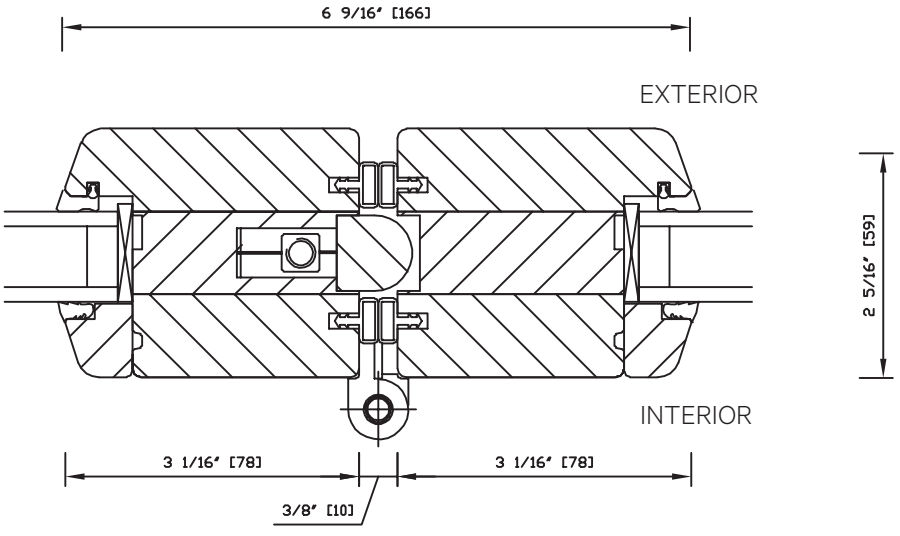


Detail 2.12 Low Profile Saddle Sill
(Weep holes and drainage by others necessary for water rating)

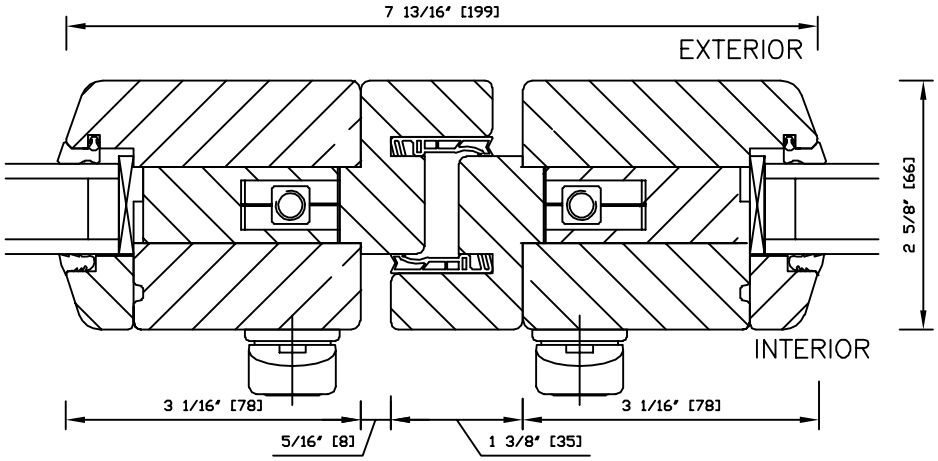




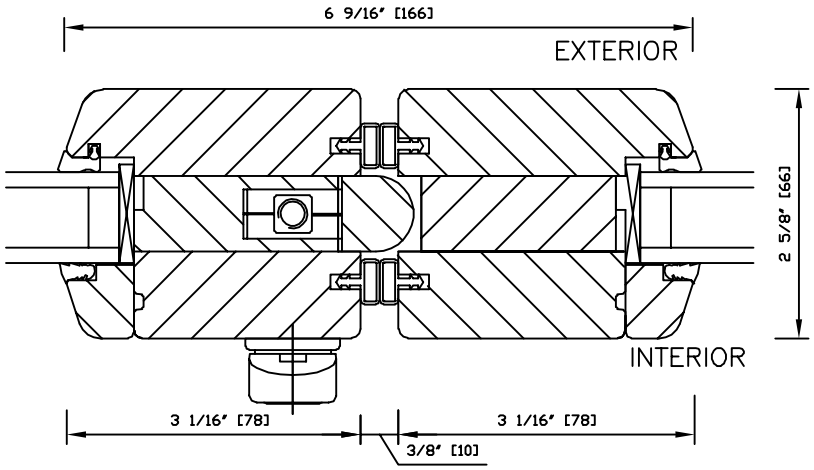
Detail 11.2 ▶
Swing Panel Hinged off
Sliding Panel



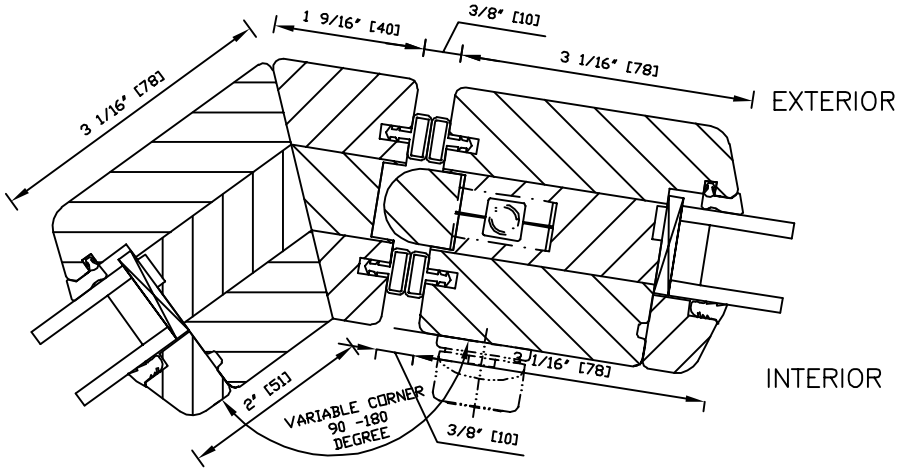
Nominal 3 3/4" (95 mm) stile widths are available as an option but is standard for Swing Slide units.



Detail 11.4
Meeting of Sliding Panel with Swing Panel or Meeting of Two Sliding Panels at Switch to Stacking Bay



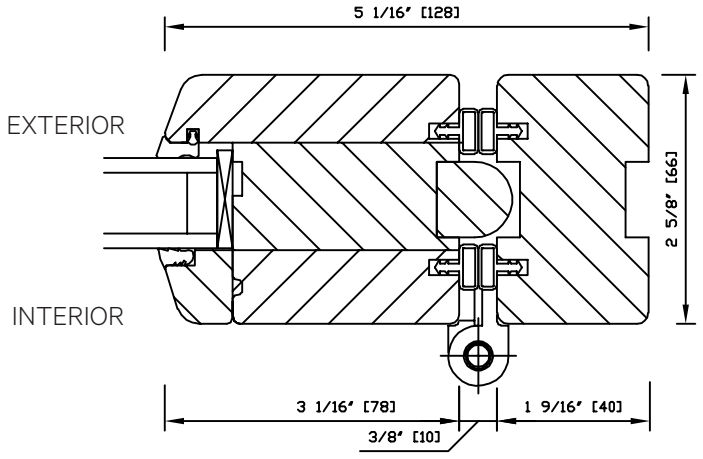
Detail 11.0
Two Sliding Panels



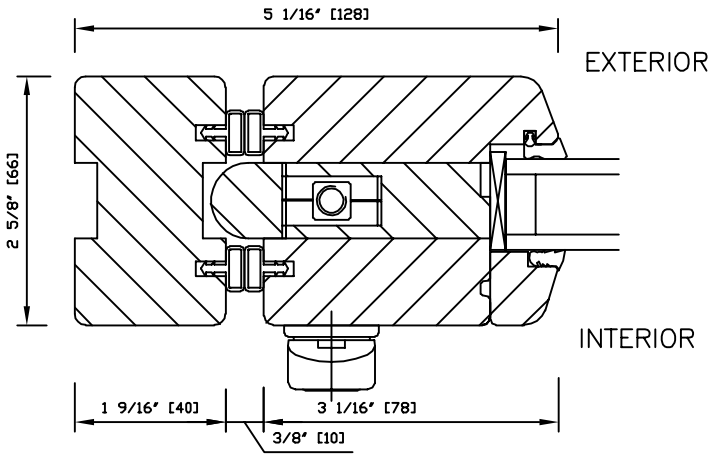
Detail 35.0
Two Panels Meeting at Angle – Can vary from 90° to 180°. Any angle changes between 90° and 180° are possible.

Nominal 3 3/4" (95 mm) stile widths are available as an option but is standard for Swing Slide units.

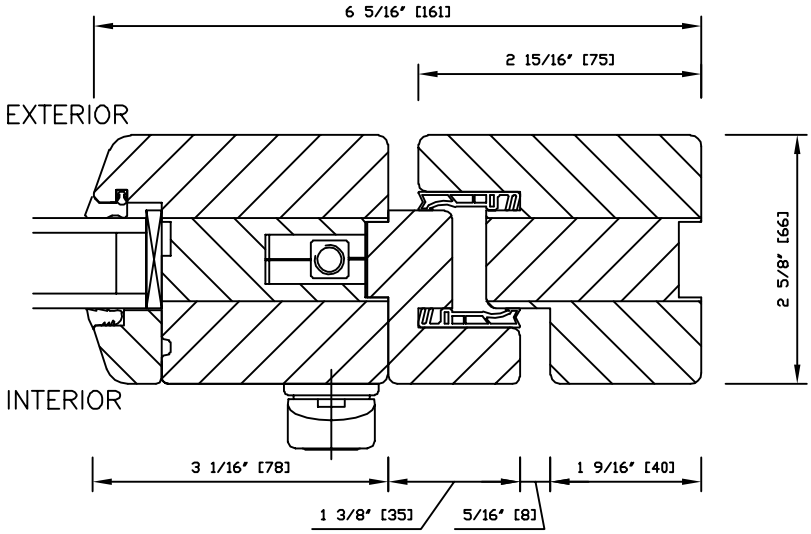
Detail 6.6
Swing Panel Hinged to a Side Jamb



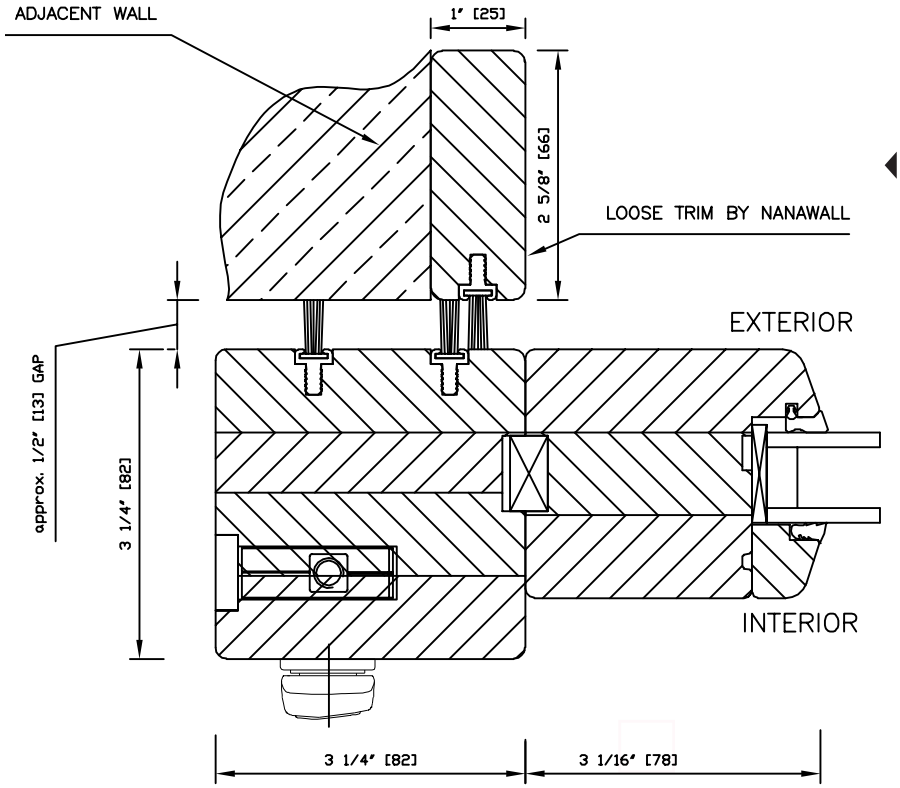
Detail 6.2
Side Jamb Meeting Panel



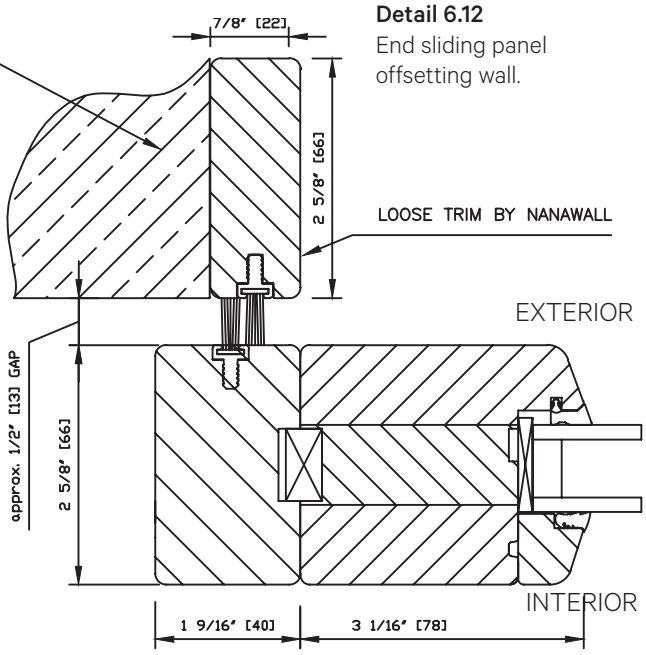
Detail 6.8
Side Jamb Meeting Panel



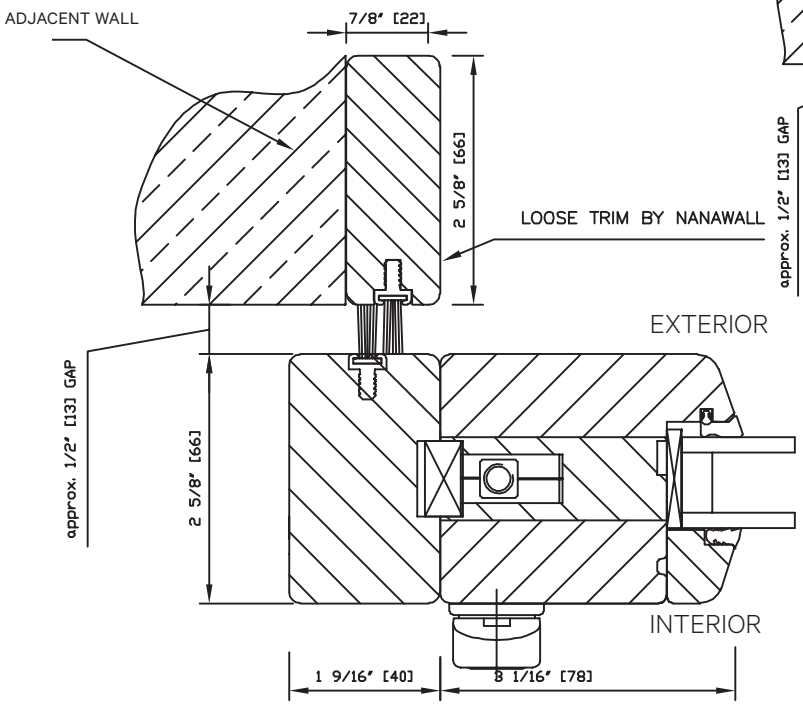
Nominal 3 3/4" (95 mm) stile widths are available as an option but is standard for Swing Slide units.



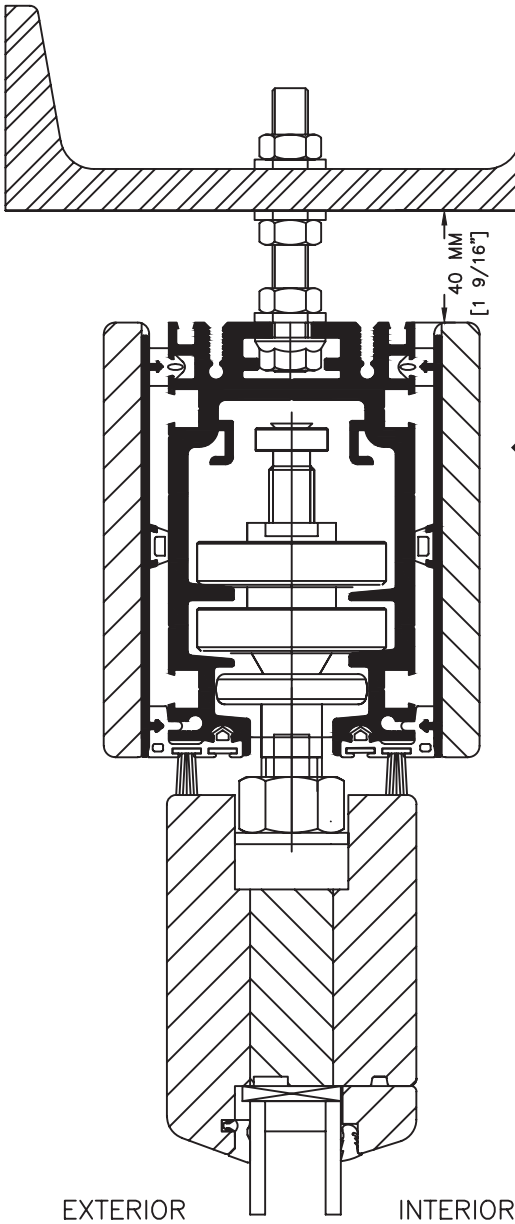
Detail 6.14
End sliding panel offsetting wall and offset locking (only with low profile saddle sill)



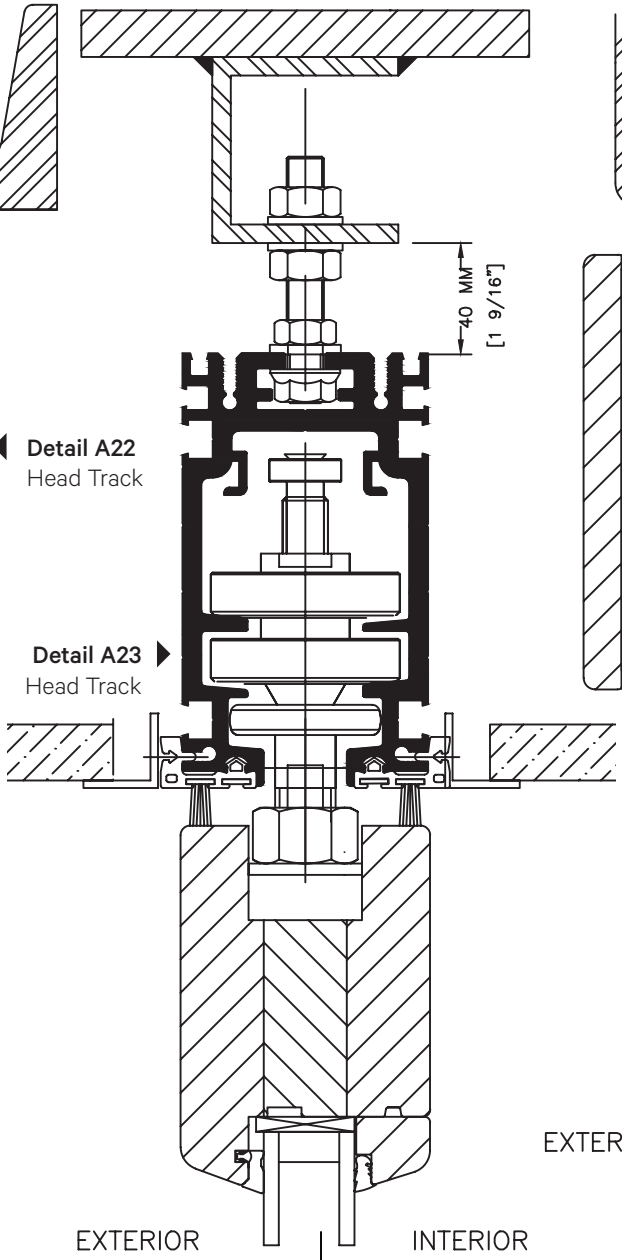
Detail 6.12
End sliding panel offsetting wall.



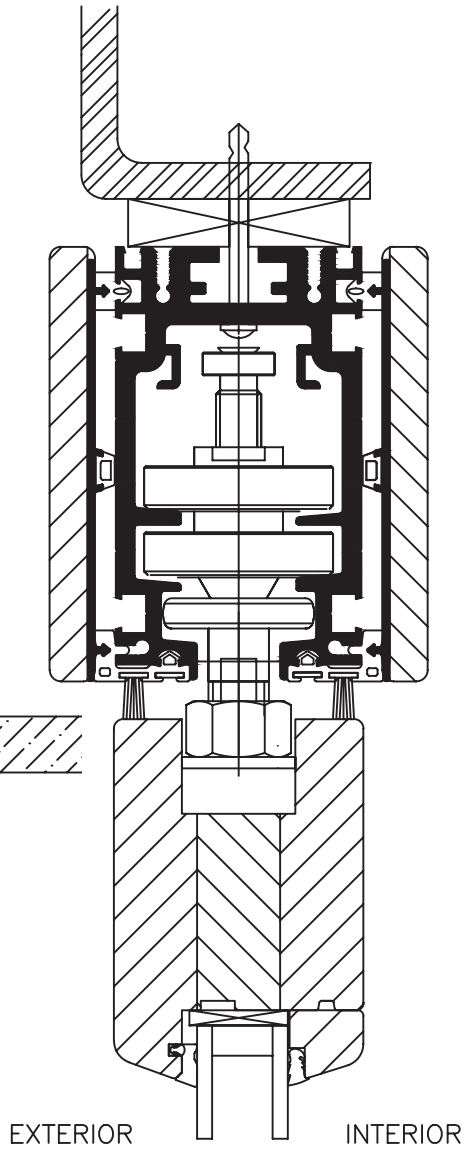
Detail 6.13
End sliding panel offsetting wall with locking in sill



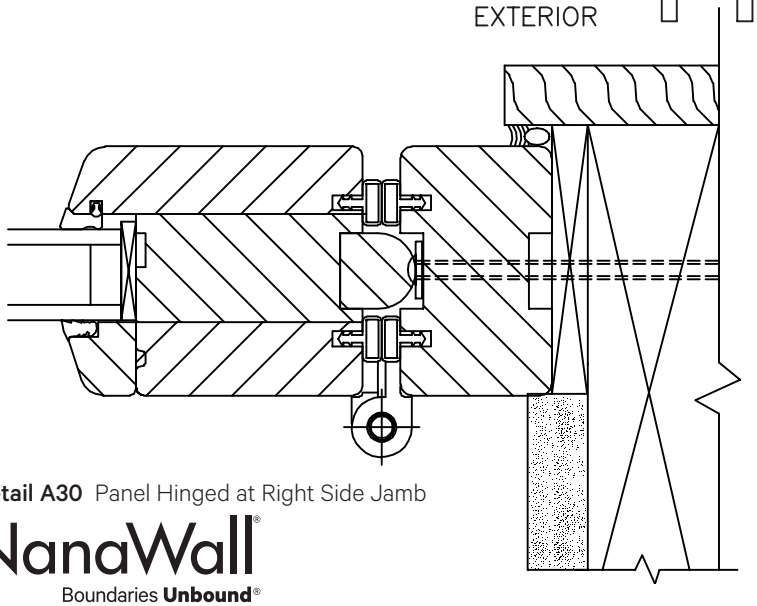
Detail A22
Head Track



Detail A23
Head Track

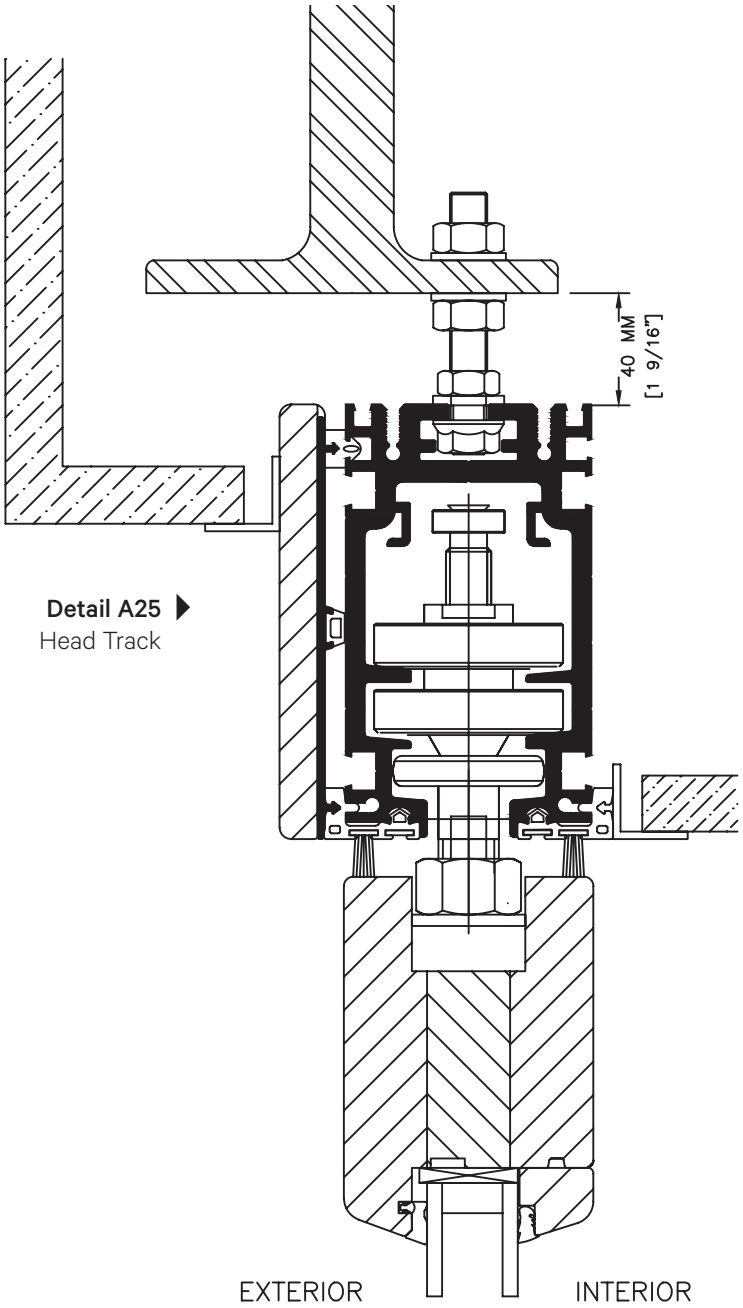


Detail A24
Head Track
(This detail is not recommended for larger openings or larger panels in which the adjustable bolts in Details A22 or A23 make adjustment easier.)



Detail A30 Panel Hinged at Right Side Jamb

See Installation Notes on page 22



Detail A25 ▶
Head Track

See Installation Notes on page 22

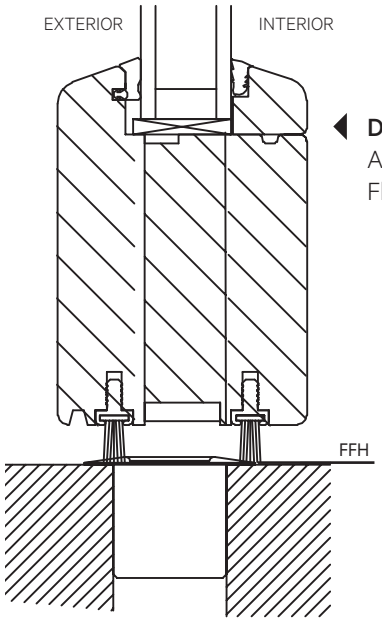
INSTALLATION NOTES

Suggested Typical Installation drawings shown are very general and may not be suitable for any particular installation. Product placement, fasteners, flashing, waterproofing, sealant, trim, and other details for specific surrounding conditions must be properly designed and provided by others.

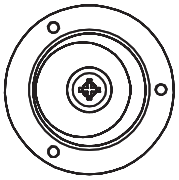
INSTALLATION CONSIDERATIONS

The approximate weight of a panel is 4.5 lbs/ft^2 (22 kg/m^2) (single glazing) and 5.5 - 8 lbs/ft^2 (27 kg/m^2 - 39 kg/m^2) (double glazing). The maximum vertical structural deflection of the header should be the lesser of L/720 of the span and 1/4" (6 mm) under full live and dead loads. The structural support for lateral loads must also be provided. An adjustable anchorage system (see Detail A23) is highly recommended at the head track. See "Pre-Installation Preparation and Installation Guidelines" in the General Introduction. An owner's manual with installation instructions is available upon request. NOTE: Overhead structural steel support must be provided for the entire length of the track and stacking bays.

It is recommended that all building dead loads be applied to the header prior to installing the NanaWall. If so and if a reasonable amount of time has been allowed for the effect of this dead load on the header, then only the building's live load can be used to meet the above requirements of L/720 or 1/4" (6 mm). If not, both the dead and live loads need to be considered.

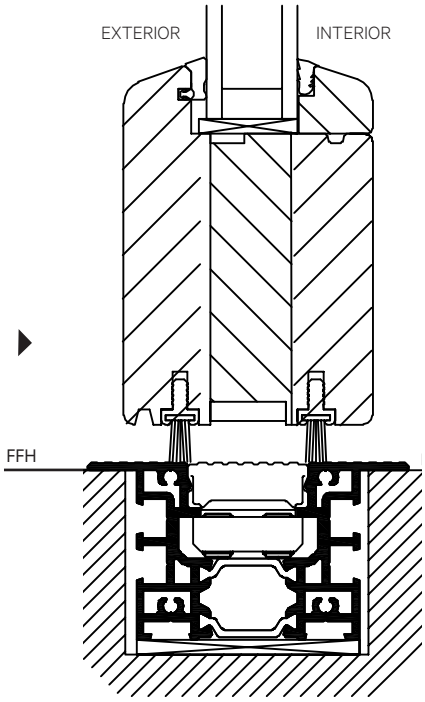


Detail 21
Adjustable
Floor Socket

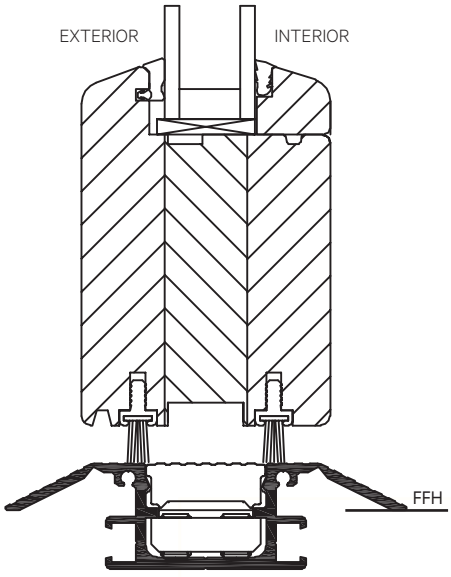


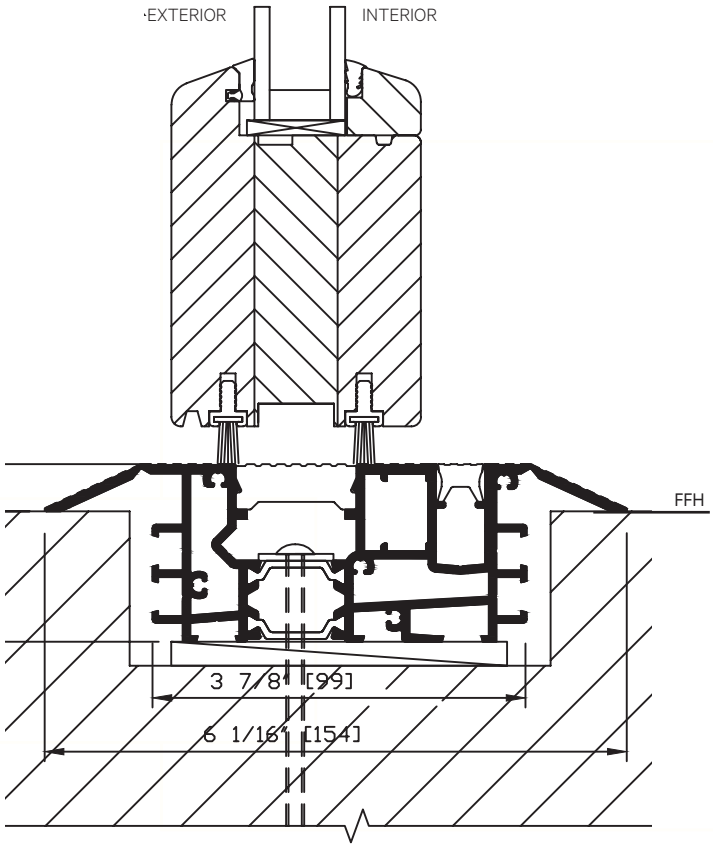
Detail 23
Surface Mounted Interior Sill

Detail 20
Flush Sill



Detail 22.2
Low Profile Saddle Sill - Option 2
(If no water rating is needed. See Detail 22.1 if water rating is needed.)



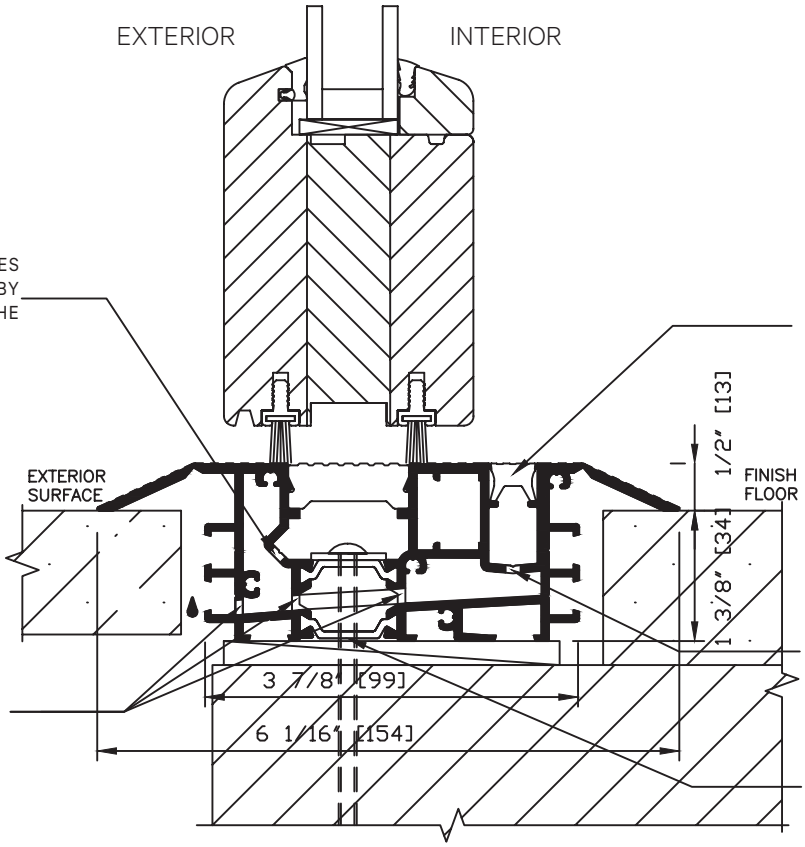


NanaWall®
Boundaries **Unbound**®

Detail 22.1

Low Profile Saddle Sill - Option 1

(Weep holes as shown below and drainage by others necessary for water rating as lab tested)



5/16" DIAM. WEEP HOLES DRILLED IN THE FIELD BY OTHERS AT ABOUT THE CENTER OF EACH PANEL.

REMOVE GASKET AND INSERT OPEN CELL FOAM (1/2" X 5/8")

5/16" DIAM. WEEP HOLES DRILLED IN THE FIELD BY OTHERS IN THE INNER CHANNEL AT ABOUT THE CENTER OF EACH PANEL.

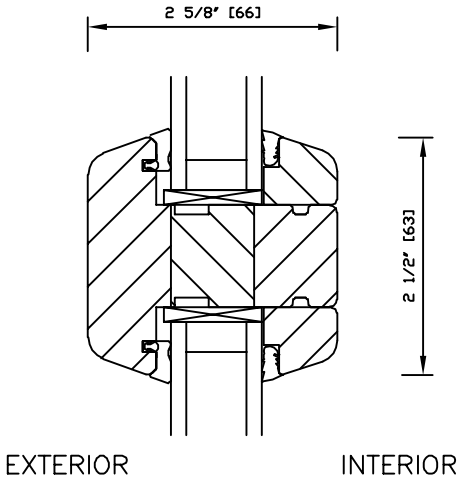
3/8" DIAM. WEEP HOLES DRILLED IN THE FIELD BY OTHERS ABOUT 10" FROM EACH END AND AT ABOUT EVERY MEETING POINT OF PANELS.

INSTALLER NOTE:
L.P.S.S. IS NOT CENTERED ON THE UNIT.

NOTE:
MAKE SURE THAT ANY FASTENER HOLES AND EACH END OF THE SILL ARE SEALED PROPERLY. FROM THE FRONT FACE OF THE SILL, DRILL HOLES ALL THE WAY TO THE BACK AS SHOWN AT A SLIGHT ANGLE UPWARD TO NOT PUNCTURE THE SILL BOTTOM EXTRUSION.

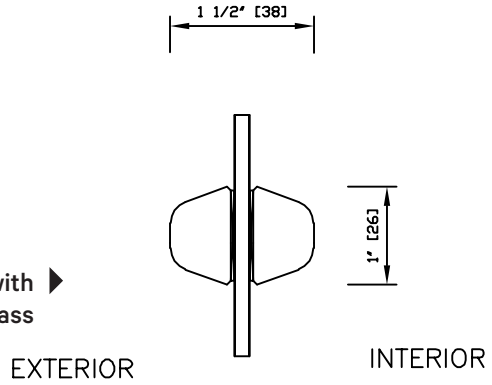
BESIDES PROPER WATERPROOFING OF THE JOB SPECIFIC SURROUNDING CONDITIONS, ESPECIALLY PROPER FLASHING UNDER THE SILL AS A WATER BARRIER, DETAILS OF THE MANAGEMENT OF WATER EXITING THE WEEP HOLES MUST BE DESIGNED AND PROPERLY INSTALLED BY OTHERS.

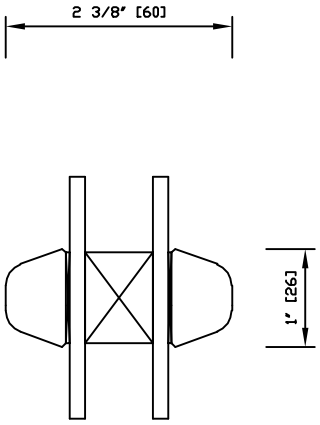
SUGGESTED TYPICAL INSTALLATION DRAWINGS SHOWN ARE VERY GENERAL AND MAY NOT BE SUITABLE FOR ANY PARTICULAR INSTALLATION. PRODUCT PLACEMENT, FASTENERS, FLASHING, WATERPROOFING, SEALANT, AND OTHER DETAILS FOR SPECIFIC SURROUNDING CONDITIONS MUST BE PROPERLY DESIGNED AND PROVIDED BY OTHERS.



Typical Mullion Profile

Typical Stile and Rail with Single 1/4" Glass





Typical Simulated Divided Lites Muntins with Spacers Between Insulated Glass (SDL)

Typical Higher Bottom Rail