

Architectural Binder Section NW Acoustical 645

GENERATION ™

Folding Glass Walls by NanaWall

NanaWall[®]
Boundaries **Unbound**[®]

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NW Acoustical 645—Generation 4 Folding Glass Wall for Interior Acoustical Separation

NW Acoustical 645, part of the Generation 4 Folding Glass Walls by NanaWall product family, is able to achieve unprecedented sound control up to an impressive unit STC 45. This system combines sleek acoustically separated aluminum framing and specialized gasketing with sound-enhanced glass to achieve optimal performance with the range of unit STC from 32 up to STC 45—all while allowing maximal transparency and natural daylight to flood interior spaces. NW Acoustical 645 is specifically engineered for educational applications and for interior spaces where acoustical privacy and ease of use are of utmost concerns.

Comprised of a host of proprietary and patented features, this floor supported system offers an extremely streamlined appearance with minimal exposed hardware creating a new level of aesthetics. As a custom-built architectural solution, this system is available in inswing or outswing configurations and can accommodate open corner and T-intersection designs.

Minimal Sightline Equals Increased Transparency

Panel frames are slim and contemporary with a total 3 7/8" (99 mm) junction where two adjacent folding vertical stiles meet. Top and bottom rails are a minimal 2 5/8" (67 mm), providing slim-line aesthetics. Panel depth is 2 5/8" (67 mm). To coordinate with interior design programs, simulated divided lites, horizontal and vertical mullions are possible.

Unique Gothic Arch Roller Design Provides Frictionless Smooth Operation

NW Acoustical 645 is engineered for ease of use. Hinged panels are intuitive and convenient to operate allowing staff to effortlessly open or close the system on demand.

The bottom rollers run on two stainless steel wheels with a unique Gothic arch design supported by a double row of encapsulated and self-lubricating ball bearings. With a 2-point contact of each wheel to the floor track, the system glides quietly and smoothly with less friction by providing an equal distribution of weight on the stainless steel track.

The rollers run above the surface, visible during operation and concealed between the panel profiles when the system is closed. This proprietary design allows for continued long-term smooth operation and has been (internally) tested to 20,000 opening and closing cycles in accordance with DIN/EN 1191.

Floating Left/Right FourFold or SixFold Panel Sets for Wider Openings and Flexible Space Management

NW Acoustical 645, along with the Generation 4 Folding Glass Wall by NanaWall product family, is the only floor supported, acoustically rated, aluminum framed folding system available that allows for larger opening sizes and flexible space management with the integration of FourFold or SixFold Panel Sets. These panels are able to move and stack to either the right, left, or center within the same track allowing the panels to be stacked in the most convenient location in classrooms, libraries, and multipurpose rooms. In offices, workspaces can be separated into individual rooms or opened into one large conference area.

Floor Supported Folding System for Education and Office Interiors

NW Acoustical 645 is the only floor supported folding glass wall system able to achieve unit STC 45 for the educational and interiors market. With floor supported systems, the main weight of the unit is carried by the lower stainless steel wheel assembly gliding on top of the stainless steel track. The top track is used merely as a guide. Floor supported systems are ideal for applications where the load-bearing capability of the header is a concern.

The benefits of floor supported are:

Reduced Structural Requirements

- Control construction costs. NanaWall Floor Supported Technology requires less header load and limits the need for extensive pre-cambering.
- Improves the likelihood of keeping existing header when retrofitting/remodeling, thus reduced construction costs—as long as the maximum deflection is the lesser of a 1/4" or L/720.

Long-term Durability and Smooth Operation

- Floor supported systems are durable and offer smooth operation with stainless steel wheels on a stainless steel track.

Two Sill Options for Seamless Integration

The Surface Mounted Flush sill is ADA-compliant and when installed with finished flooring has a mere 15/16" (23.5 mm) of track exposed. The shallow surface mounted sill allows for easy installation. The sill can be installed on top of the foundation or sub-floor without the need of cutting into the structural slab. Finished flooring can butt up to the floor track creating seamless integration between interior spaces.

The Flush sill option is ADA-compliant with an aluminum floor track insert that provides high heel protection. Additionally, the insert offers protection from dirt and debris collecting in the bottom track. This sill needs to be recessed into existing flooring. The flanges of the sill sit on top of the finished floor to create a clean transition. A lighted option is possible; LED rope lights by others may be run under the sill insert to illuminate the way.

Swing Doors for Traffic Management

To accommodate traffic flow, NW Acoustical 645 configuration options allow for an up to 3' 3" (1000 mm) swing door at the side jamb at one end or both. Swing doors have been independently tested for 500,000 cycles without failure. These swing doors can be optionally outfitted with higher kickplates for ADA compliance. Panic hardware, single motion lock operated by lever handles, and top door closers by others are possible.

For systems with requirements of unit STC 44 or less, swing doors can be added within the chain of panels for systems with an odd number of panels folding in either direction.

System Width Adjustment Feature for Long-term Tight, Consistent Sealing

System width adjusts with ease. To allow for construction tolerance, a patented (Patent No. US10683688B2) lateral adjustment feature of +/- 3/16" (5 mm) for system width is available at the side jamb. This allows for consistent seal compression within system.

Concealed Panel Alignment Means Less Exposed Panel Hinges

The patented (Patent No. US10711510B2) TwinX mechanism aligns panels of over 7' (2150 mm) in height by adding a hidden spring-loaded structural reinforcement feature without the need for an additional exposed hinge in the middle of the system. TwinX interlocks the panels together when the system is closed providing a consistent seal between the panels. This unique feature provides a clean-lined, sleek, and uniform appearance to the system.

Multipurpose Frame Insert Provides Continuous Surface at Side Jamb and Head Track

Standard to the system is a black polyamide clip-on multipurpose frame insert that conceals all visible frame-to-structure attachment points and screw heads to create a clean, even appearance. Additionally, this frame cover piece creates a hollow space to run and guide concealed cabling for the NW Acoustical 645 to connect to a security system by others.

Anti-tilt Feature for Dynamic Stacking of Panel Sets

Each floor supported FourFold or SixFold Panel Set is outfitted with a proprietary engineered anti-tilt feature in the head track. This feature assures that the floating panels stack neatly and securely when in open formation. Panels may stack either to the right side, left side, or anywhere within the opening.

System Sizes

Depending on the desired STC and glazing of the unit, maximum unit heights range from 9' 6" (2900 mm) to 11' 6" (3500 mm). Maximum panel widths up to 3' 3" (1000 mm) are possible. System widths are unlimited with the addition of unhinged FourFold or SixFold Panel Sets.

Glazing Options

NW Acoustical 645 is able to achieve unit sound ratings from STC 32 to STC 45. The glass pocket can accommodate glass from 1/4" (6 mm) monolithic to 1 3/4" (45 mm) double insulated glass.

Concealed Locking for Clean Appearance

Through innovative engineering, NW Acoustical 645 integrates and hides the locking rods within the profiles, elevating the aesthetics of the system. Standard to the system is concealed locking between folding panels that operates with a 180° turn of a flat handle. The top and bottom locking bolts have approximately a 1" (24 mm) throw for maximum security engagement into the head and floor track. NW Acoustical 645 is compatible with master key locking found in school design for the 21st Century.

Standard and Tested Locking Option on Primary Swing Panels:

1. Multi-point locking operated by lever handles and with European profile cylinder. Locking is independently tested for acoustical performance and forced entry. Instead of a profile cylinder, an adapter casing is available for use with an SFIC core.

Non-standard Commercial Locking Options on Primary Swing Panels (no acoustical performance value for primary swing panel):

1. Deadbolt lock(s) and push/pull handles and key/key European profile cylinder on both sides. Only recommended for end swing panel with door closer by others. Instead of a profile cylinder, an adapter casing is available for use with an SFIC core.
2. Latch and deadbolt single motion operated by GU Rondo lever handles and with European profile cylinder. Instead of a profile cylinder, an adapter casing is available for use with an SFIC core.

Non-standard Commercial Locking Options on Primary Swing Panels Prepped for Supply by Others (no acoustical performance value for primary swing panel):

1. Latch and deadbolt single motion locking operated by lever handles with locking with a US mortise cylinder that can accommodate standard 5 - 7 pin, SFIC, FSIC, or LFIC cores that currently includes Yale 8808-2 series and Schlage L/LV9000 series only.
2. Single latch Schlage ND Series mechanical lock
3. Panic hardware (prep provided for the push side):
 - a. Von Duprin 33/35A Series Narrow Stile Rim Exit Device
 - b. Von Duprin 98/99 Series Rim Exit Device
 - c. DORMA 9700 Series Narrow Stile Rim Exit Device

Standard and Tested Locking Option for Secondary Swing Panels:

1. Concealed edge lock with top and bottom locking bolts have approximately a 1" (24 mm) throw for maximum security engagement into the head and floor track. Locking is independently tested for acoustical performance and forced entry.

For additional hardware options, contact NanaWall.

Handles

Stainless Steel Lever Handles

Stainless steel lever handles and escutcheon plates are available either in brushed satin or black titanium finish.

Stainless Steel Flat Handles

Stainless steel flat handles are available either in brushed satin or black titanium finish.

Spring-Loaded Pull Handle

For outswing units with larger panel sizes, a spring-loaded pull handle is supplied for ease of closing the system. The pull handle is located above the flat handle. When not in use, the handle lays flat against the adjacent panel and is supplied with bumpers to avoid metal-to-metal contact.

Handles are either silver or black titanium stainless steel with the attachment to coordinate with the hinge hardware of the system.

Finishes


NW Acoustical 645 is available in 50 standard powder coat colors in standard AAMA 2604 (2605 optional) and over another 200 optional colors available in powder coat and anodized finishes. Custom-matched colors, SE (Steel Effect) colors, and simulated wood effects are also available. For accurate color swatch examples, please request our Powder Coating Finish Options brochure.

LEED Scoring

NW Acoustical 645 with an STC 45 qualifies for Enhanced Acoustical Performance IEQc9 (LEED for Schools) and EQc9 (LEED for Interior Design and Construction).



NW Acoustical 645

TYPE OF TEST	RESULTS
 <p>Acoustical Performance ^①</p>	STC (Rw) 33 and OITC 27 achieved with STC 32 glass (15/16" [24 mm] double IGU, 4 mm tempered + 4 mm tempered)
	STC (Rw) 38 and OITC 32 achieved with STC 39 glass (1 1/8" [28 mm] double IGU, 6 mm laminated + 6 mm tempered)
	STC (Rw) 45 and OITC 37 achieved with STC 48 glass (1 7/16" [36 mm] double IGU, 12 mm enhanced laminated + 8 mm enhanced laminated) with head track recessed

① Excerpts of results of a three panel unit 9' 10" W x 8' 2" H (3000 mm x 2500 mm) tested in December 2017 by SG Bauakustik, Muelheim an der Ruhr, Germany, an EN DIN ISO accredited and certified independent testing laboratory.





Check www.NanaWall.com for the latest updates.

Acoustical Performance Interpolation with Other Glazing Options

SURFACE MOUNTED FLUSH SILL FLUSH SILL			
TYPE OF GLASS	GLASS ONLY STC	COMPLETE SYSTEM STC (Rw)	MAXIMUM UNIT HEIGHT POSSIBLE (*)
1/4" (6 mm) tempered	31	32	11' 6" (3500 mm)
1/4" (6 mm) laminated	35	35	11' 6" (3500 mm)
1/4" (6 mm) enhanced laminated	36	36	11' 6" (3500 mm)
3/8" (10 mm) enhanced laminated	38	37	11' 6" (3500 mm)
1/2" (12 mm) enhanced laminated	39	38	11' 6" (3500 mm)
1 7/16" (36 mm) double IGU, 6 mm enhanced laminated + 6 mm enhanced laminated	45	42	11' 6" (3500 mm)
		43 (with head track recessed)	
1 5/8" (42 mm) double IGU, 8 mm enhanced laminated + 8 mm enhanced laminated	47	43	10' 2" (3100 mm)
		44 (with head track recessed)	
1 9/16" (40 mm) double IGU, 10 mm enhanced laminated + 8 mm enhanced laminated	48	44	9' 6" (2900 mm)
		45 (with head track recessed)	
NOTES			
(*) can vary, dependent on weight of the glass			
Contact NanaWall for other glass types.			

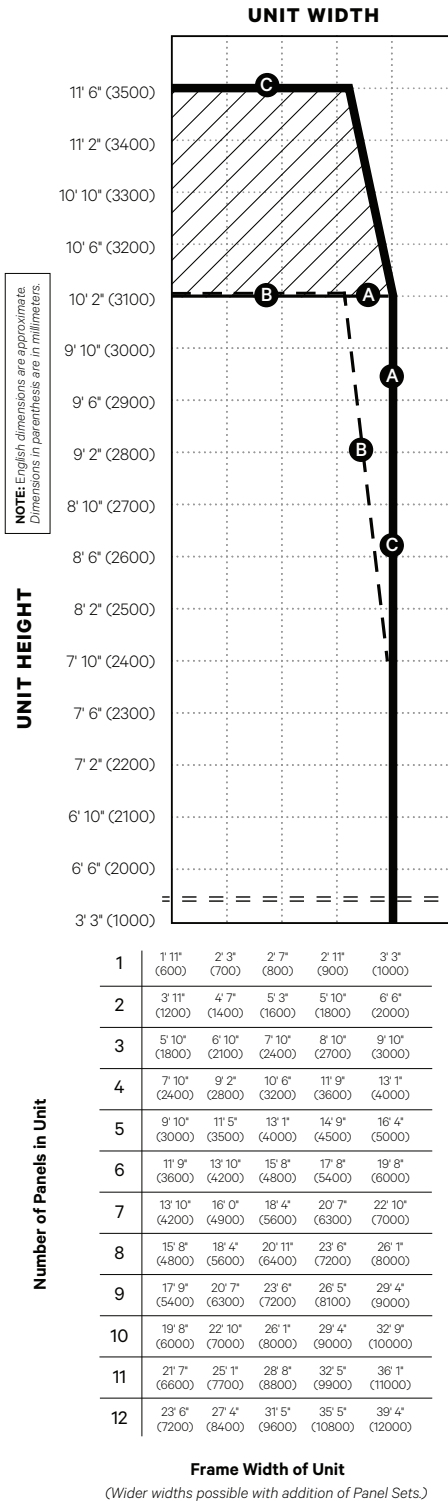
Surface Mounted Flush Sill | Flush Sill

NW Acoustical 645

TYPE OF TEST	INWARD OPENING UNITS	OUTWARD OPENING UNITS
 <p>Air Infiltration ^① ASTM E-283, ft³/min./ft. and NFRC 400</p>	<p>@ 1.57 psf (75 Pa): 0.12 (0.12 exfiltration)</p> <p>A2</p>	<p>@ 1.57 psf (75 Pa): 0.12 (0.12 exfiltration)</p> <p>A2</p>
	<p>@ 6.24 psf (300 Pa): 0.30</p>	<p>@ 6.24 psf (300 Pa): 0.28</p>
 <p>Forced Entry Resistance ^① AAMA-1304</p>	<p>In accordance with AAMA-1304 requirements ^①</p>	
 <p>Operating Force ^① ASTM E2068</p>	<p>The NW Acoustical 645 meets:</p> <ul style="list-style-type: none"> • Swing Panel: Open 1 lbf (2.8 N) & Close 1 lbf (3.9 N) • Folding Panels: Initiate Motion - Open 4 lbf (20 N) & Close 3 lbf (15 N) • Folding Panels: Maintain Motion - Open 1 lbf (3 N) & Close 1 lbf (4 N) 	
 <p>Operation / Cycling Performance AAMA 920 & DIN EN 1191 Windows and Pedestrian Doors - Mechanical Durability</p>	<p>The NW Acoustical 645 meets:</p> <ul style="list-style-type: none"> • "AAMA 920" requirement for swing panel attached to side jamb: 500,000 cycles - Pass ^① • German "DIN EN 1191/12400 Classification," where a unit is tested after 20,000 opening and closing cycles and is still functional 	

① Derived from excerpts of results of 13' 1" W x 8' 6" H (4000 mm x 2600 mm) 4 panel unit (1L3R configuration) with low profile saddle sill specific or equivalent to lab tested by Intertek Building & Construction, an independent testing laboratory in March 2020 per AAMA/WDMA/CSA 101/I.S.2/A440-17, NAFS-17 - North American Fenestration Standard

Size Chart NW Acoustical 645: UNIT STC 32 to STC 43



Any Custom Size is Possible Up to the Maximum Size Limit Lines Shown

**FOR UNIT STC 32 - 43 (max. 6 lbs/ft² [30 kg/m²])
MAXIMUM SIZE LIMIT LINE OF:**

A CONFIGURATIONS ———
(Swing panel at jamb only.)

Standard Configurations:

1L	1L 1R	1L 4R	2L 1R	4L 1R	6L 1R
1R	1L 2R	1L 6R			

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:
1L 4L/R | 1L 4L/R 1R | 4L/R 1R

Addition of Panel Sets to all A Configurations possible.

B CONFIGURATIONS - - -
(Swing panel as part of odd number of panels.)

Standard Configurations:

3L	5L	1L 3R	3L 2R	5L 1R	4L 3R	5L 3R	5L 4R	5L 6R
3R	5R	3L 1R	3L 3R	2L 5R	5L 2R	3L 6R	6L 3R	6L 5R
		2L 3R	1L 5R	3L 4R	3L 5R	4L 5R	5L 5R	

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:
3L 4L/R | 3L 6L/R | 3L 4L/R 3R

Addition of Panel Sets to all B Configurations possible.

C CONFIGURATIONS ———
(No swing panels.)

Standard Configurations:

2L	4L	6L	2L 2R	4L 2R	6L 2R
2R	4R	6R	2L 4R	4L 4R	6L 4R
			2L 6R	4L 6R	6L 6R

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:
2L 4L/R | 4L/R 4R | 6L 6L/R | 4L/R 4L/R | 6L/R 4L/R

Addition of Panel Sets to all C Configurations possible.

Horizontal mullion required for unit height taller than 10' 2" (3100 mm) such that no glass pane is more than 7' 10" (2400 mm) tall.

GLAZING

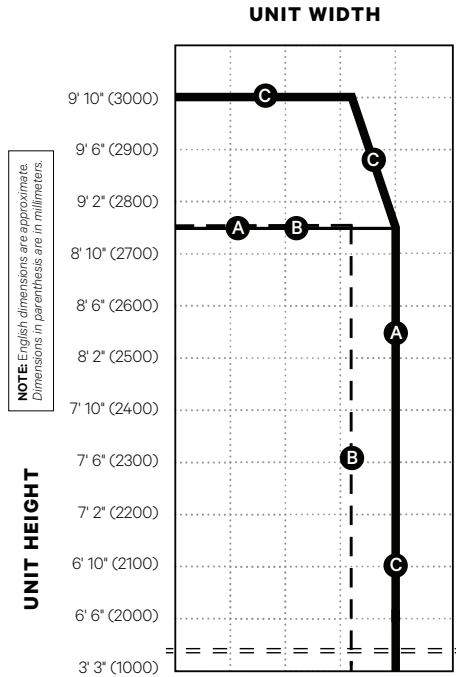
- Glass thicknesses from 1/4" (6 mm) to 1 3/4" (45 mm) can be accommodated.
- Dry glazing system.

NOTES

- Higher sized panels over 10' 2" (3100 mm) in height may need to be operated by more than one person.
- No limitation on number of unhinged panel sets in a unit. Additional adequate structural lateral support by others where panels stack.
- Max. panel width swing panel attached to side jamb 3' 3" (1000 mm).
- Min. panel width 23 5/8" (600 mm) for C Configuration.
- Min. panel width 21 5/8" (550 mm) for Panel Sets 4L/R, 6L/R with no swing panel.
- For special sizes and configurations, contact NanaWall.

Size Chart NW Acoustical 645: UNIT STC 44

(with Head Track Recessed)



NOTE: English dimensions are approximate. Dimensions in parentheses are in millimeters.

UNIT HEIGHT

Number of Panels in Unit

1	1' 11" (600)	2' 3" (700)	2' 7" (800)	2' 11" (900)	3' 3" (1000)
2	3' 11" (1200)	4' 7" (1400)	5' 3" (1600)	5' 10" (1800)	6' 6" (2000)
3	5' 10" (1800)	6' 10" (2100)	7' 10" (2400)	8' 10" (2700)	9' 10" (3000)
4	7' 10" (2400)	9' 2" (2800)	10' 6" (3200)	11' 9" (3600)	13' 1" (4000)
5	9' 10" (3000)	11' 5" (3500)	13' 1" (4000)	14' 9" (4500)	16' 4" (5000)
6	11' 9" (3600)	13' 10" (4200)	15' 8" (4800)	17' 8" (5400)	19' 8" (6000)
7	13' 10" (4200)	16' 0" (4900)	18' 4" (5600)	20' 7" (6300)	22' 10" (7000)
8	15' 8" (4800)	18' 4" (5600)	20' 11" (6400)	23' 6" (7200)	26' 1" (8000)
9	17' 9" (5400)	20' 7" (6300)	23' 6" (7200)	26' 5" (8100)	29' 4" (9000)
10	19' 8" (6000)	22' 10" (7000)	26' 1" (8000)	29' 4" (9000)	32' 9" (10000)
11	21' 7" (6600)	25' 1" (7700)	28' 8" (8800)	32' 5" (9900)	36' 1" (11000)
12	23' 6" (7200)	27' 4" (8400)	31' 5" (9600)	35' 5" (10800)	39' 4" (12000)

Frame Width of Unit

(Wider widths possible with addition of Panel Sets.)

Any Custom Size is Possible Up to the Maximum Size Limit Lines Shown

FOR UNIT STC 44 (max. 8 lbs/ft² [40 kg/m²])

MAXIMUM SIZE LIMIT LINE OF:

A CONFIGURATIONS ———

(Swing panel at jamb only.)

Standard Configurations:

1L	1L 1R	1L 4R	2L 1R	4L 1R	6L 1R
1R	1L 2R	1L 6R			

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:

1L 4L/R	1L 4L/R 1R	4L/R 1R
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Addition of Panel Sets to all A Configurations possible.

B CONFIGURATIONS - - -

(Swing panel as part of odd number of panels.)

Standard Configurations:

3L	5L	1L 3R	3L 2R	5L 1R	4L 3R	5L 3R	5L 4R	5L 6R
3R	5R	3L 1R	3L 3R	2L 5R	5L 2R	3L 6R	6L 3R	6L 5R
		2L 3R	1L 5R	3L 4R	3L 5R	4L 5R	5L 5R	

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:

3L 4L/R	3L 6L/R	3L 4L/R 3R
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Addition of Panel Sets to all B Configurations possible.

C CONFIGURATIONS ———

(No swing panels.)

Standard Configurations:

2L	4L	6L	2L 2R	4L 2R	6L 2R
2R	4R	6R	2L 4R	4L 4R	6L 4R
			2L 6R	4L 6R	6L 6R

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:

2L 4L/R	4L/R 4R	6L 6L/R	4L/R 4L/R	6L/R 4L/R
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Addition of Panel Sets to all C Configurations possible.

GLAZING

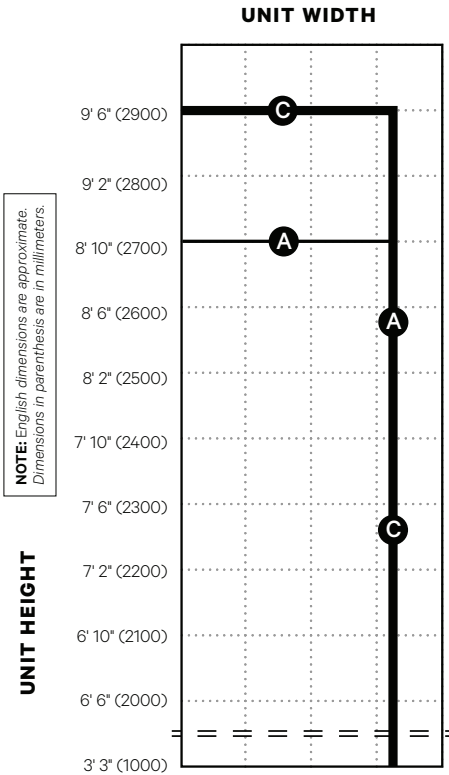
- Glass thicknesses from 1/4" (6 mm) to 1 3/4" (45 mm) can be accommodated.
- Dry glazing system.

NOTES

- No limitation on number of unhinged panel sets in a unit. Additional adequate structural lateral support by others where panels stack.
- Max. panel width swing panel attached to side jamb 3' 3" (1000 mm).
- Min. panel width 23 5/8" (600 mm) for C Configuration.
- Min. panel width 21 5/8" (550 mm) for Panel Sets 4L/R, 6L/R with no swing panel.
- For special sizes and configurations, contact NanaWall.

Size Chart NW Acoustical 645: UNIT STC 45

(with Head Track Recessed)



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

UNIT HEIGHT

1	1' 11" (600)	2' 3" (700)	2' 7" (800)	2' 11" (900)
2	3' 11" (1200)	4' 7" (1400)	5' 3" (1600)	5' 10" (1800)
3	5' 10" (1800)	6' 10" (2100)	7' 10" (2400)	8' 10" (2700)
4	7' 10" (2400)	9' 2" (2800)	10' 6" (3200)	11' 9" (3600)
5	9' 10" (3000)	11' 5" (3500)	13' 1" (4000)	14' 9" (4500)
6	11' 9" (3600)	13' 10" (4200)	15' 8" (4800)	17' 8" (5400)
7	13' 10" (4200)	16' 0" (4900)	18' 4" (5600)	20' 7" (6300)
8	15' 8" (4800)	18' 4" (5600)	20' 11" (6400)	23' 6" (7200)
9	17' 9" (5400)	20' 7" (6300)	23' 6" (7200)	26' 5" (8100)
10	19' 8" (6000)	22' 10" (7000)	26' 1" (8000)	29' 4" (9000)
11	21' 7" (6600)	25' 1" (7700)	28' 8" (8800)	32' 5" (9900)
12	23' 6" (7200)	27' 4" (8400)	31' 5" (9600)	35' 5" (10800)

Frame Width of Unit

(Wider widths possible with addition of Panel Sets.)

Any Custom Size is Possible Up to the Maximum Size Limit Lines Shown

**FOR UNIT STC 45 (max. 9 lbs/ft² [45 kg/m²])
MAXIMUM SIZE LIMIT LINE OF:**

A CONFIGURATIONS —
(Swing panel at jamb only.)

Standard Configurations:
 1L | 1L 1R | 1L 4R | 2L 1R | 4L 1R | 6L 1R
 1R | 1L 2R | 1L 6R

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:

1L 4L/R | 1L 6L/R 1R | 4L/R 1R

Addition of Panel Sets to all A Configurations possible.

C CONFIGURATIONS —
(No swing panels.)

Standard Configurations:
 2L | 4L | 6L | 2L 2R | 4L 2R | 6L 2R
 2R | 4R | 6R | 2L 4R | 4L 4R | 6L 4R
 2L 6R | 4L 6R | 6L 6R

Sample Configurations with Unhinged FourFold or SixFold Panel Sets:

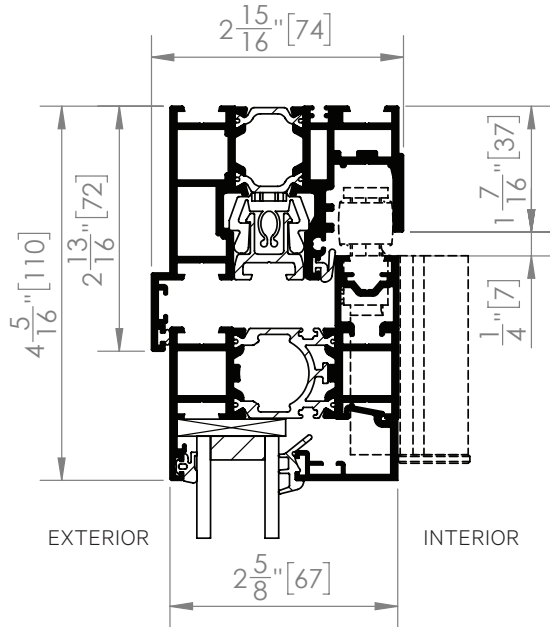
2L 4L/R | 4L/R 4R | 6L 6L/R | 4L/R 4L/R | 6L/R 4L/R

Addition of Panel Sets to all C Configurations possible.

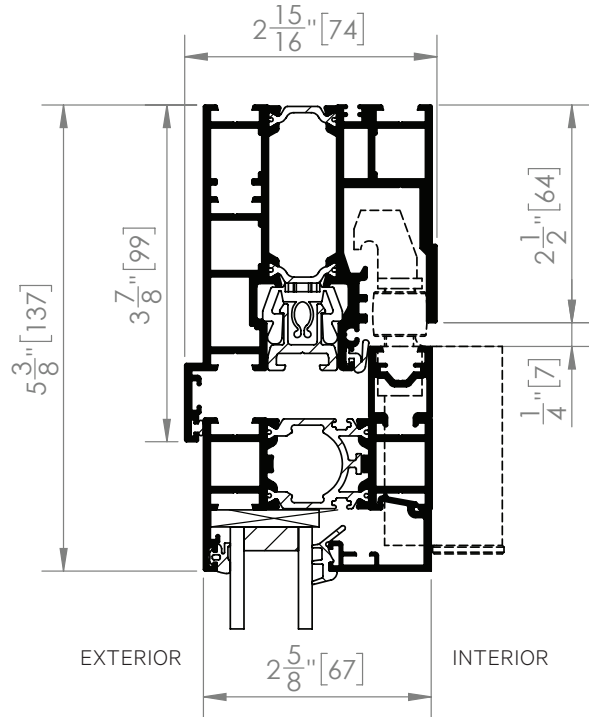
NOTES

- Max. panel width of swing panel hinged to the side jamb 3' 3" (1000 mm). Please note that with a swing panel wider than 3' (914 mm), panel widths will not be equal.
- No limitation on number of unhinged panel sets in a unit. Additional adequate structural lateral support by others where panels stack.
- Min. panel width 23 5/8" (600 mm) for C Configuration.
- Min. panel width 21 5/8" (550 mm) for Panel Sets 4L/R, 6L/R with no swing panel.
- For special sizes and configurations, contact NanaWall.

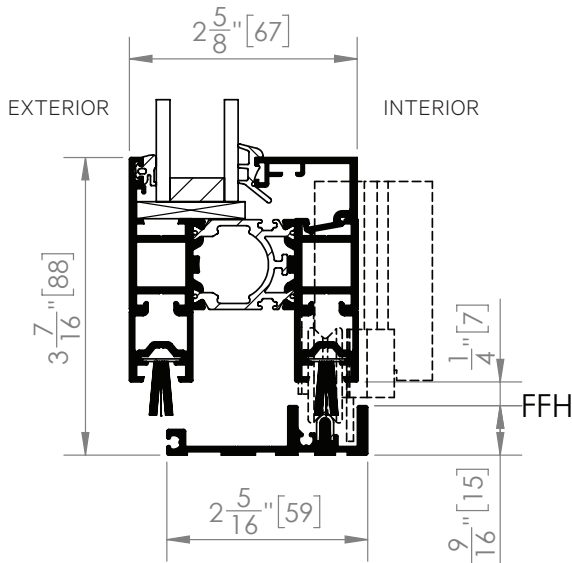
Detail 1.0
Head Jamb



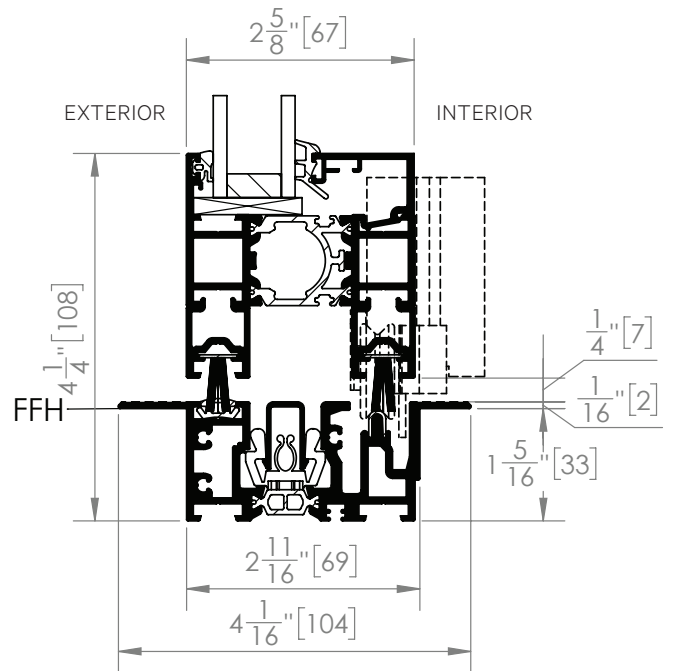
Detail 12.0
Head Jamb for Unhinged Panel Sets



Detail 33.0
Surface Mounted Flush Sill

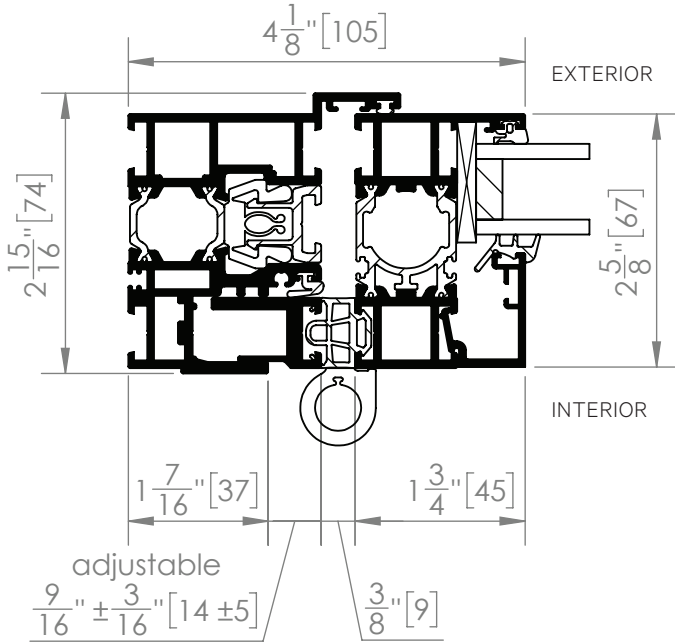


Detail 24.0
Flush Sill

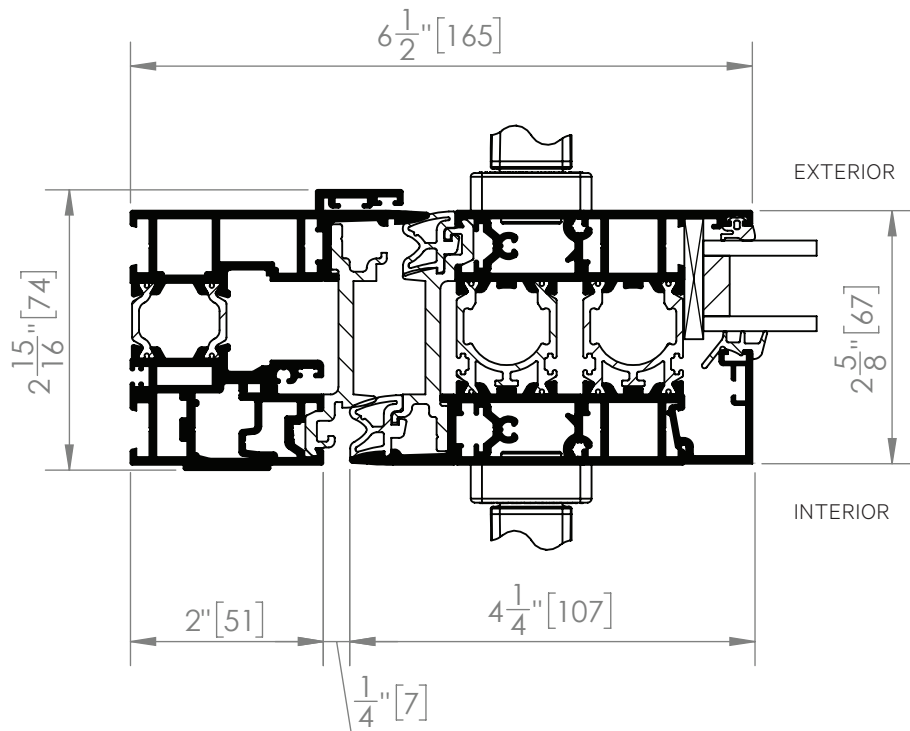


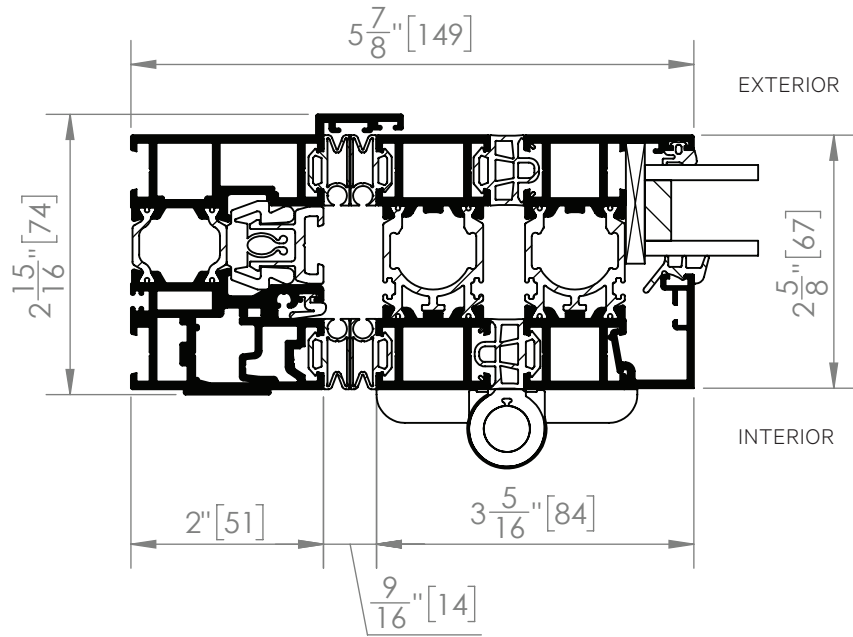
Detail 3.0

Panel Hinged to Side Jamb



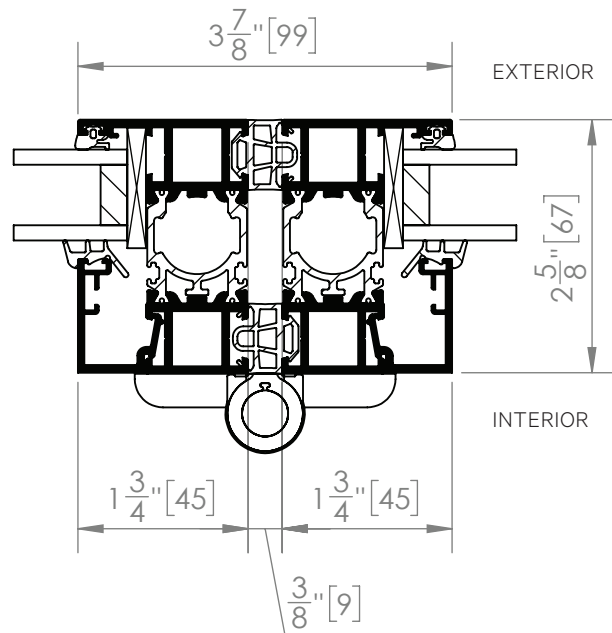
Detail 4.0
 Swing Panel with Locking
 at Side Jamb

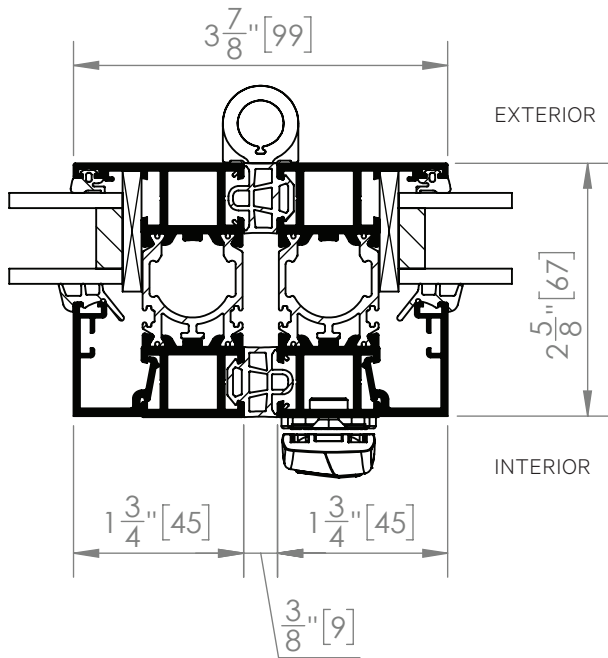




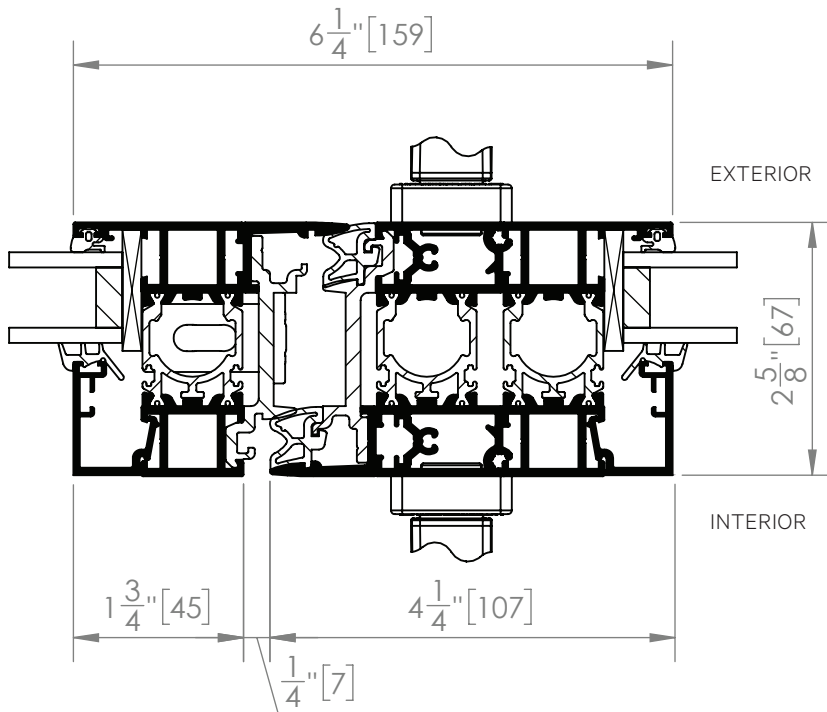
Detail 5.0
Panel with Running Post and Top and Bottom Rollers Attached Meeting at Side Jamb

Detail 7C.0
Hinged Folding Panels with Running Post and Top and Bottom Rollers Attached

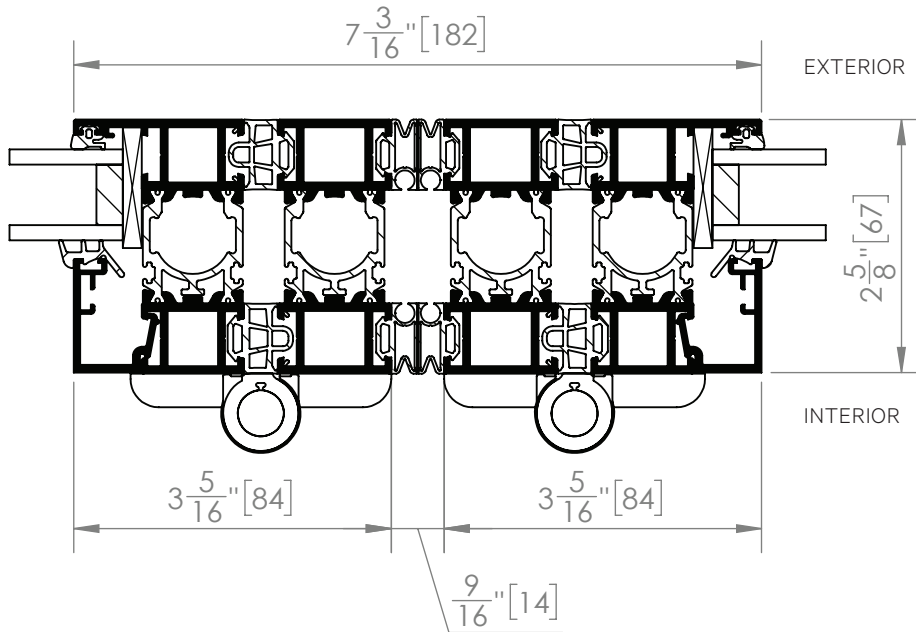




Detail 7.0
Hinged Folding Panels
with Locking

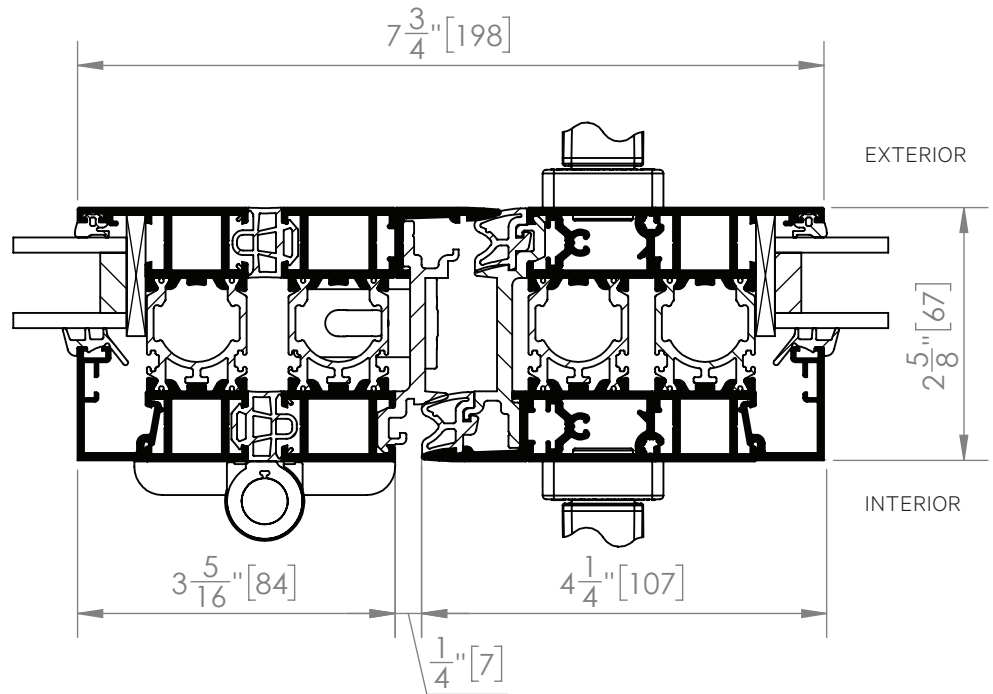


Detail 8.0
Pair of Swing Panels with
Primary Swing Panel with
Lever Handle Locking on
Right and Secondary Swing
Panel with Concealed Edge
Lock on Left

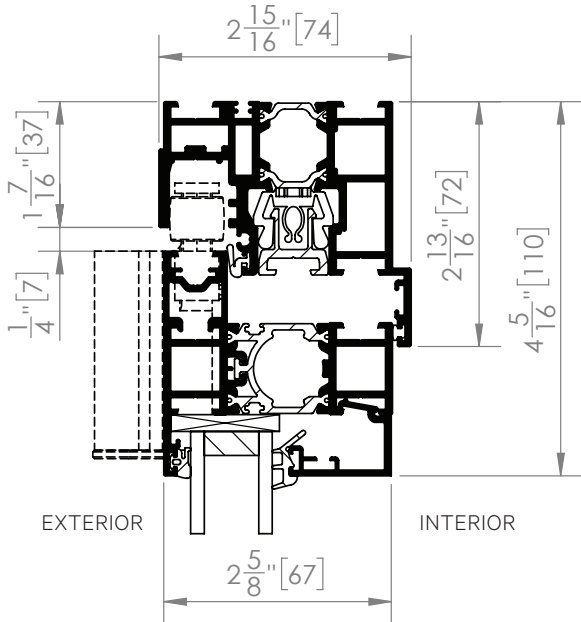


Detail 9.0
Meeting of Folding Panels
with Running Post and
Top and Bottom Rollers
Attached

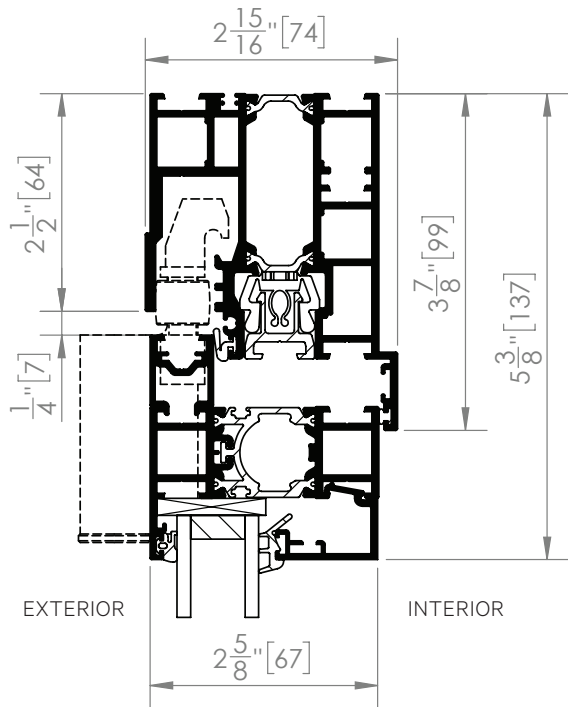
Detail 10.0
Meeting of Swing Panel with
Locking and Folding Panel
with Running Post and Top
and Bottom Rollers Attached



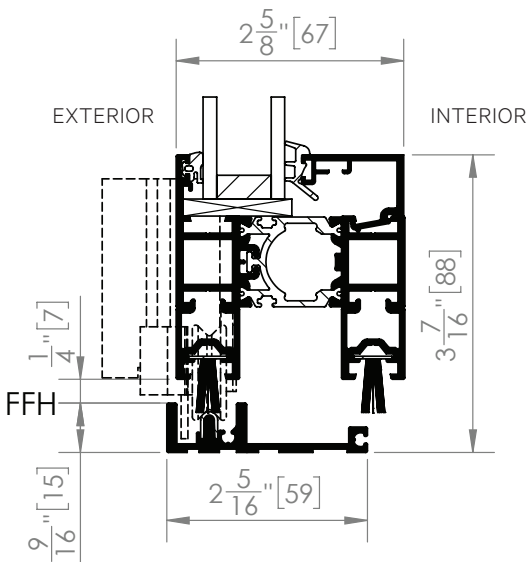
Detail 1.1
Head Jamb



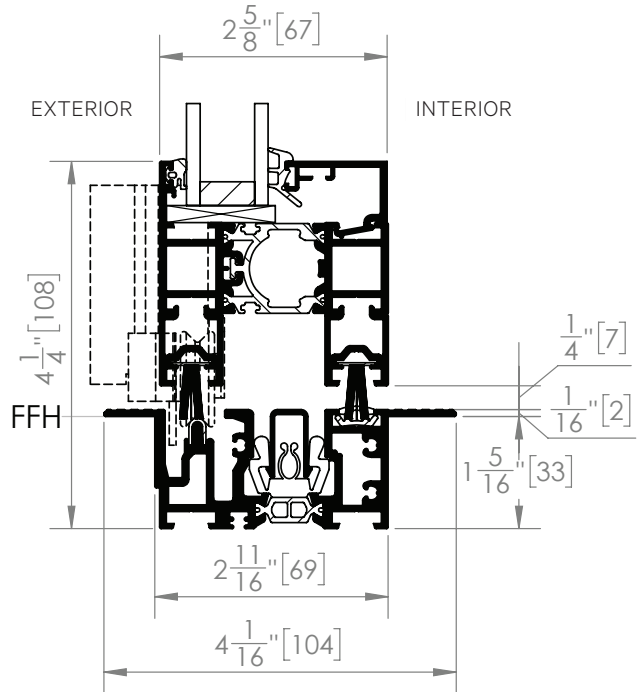
Detail 12.1
Head Jamb for Unhinged Panel Sets

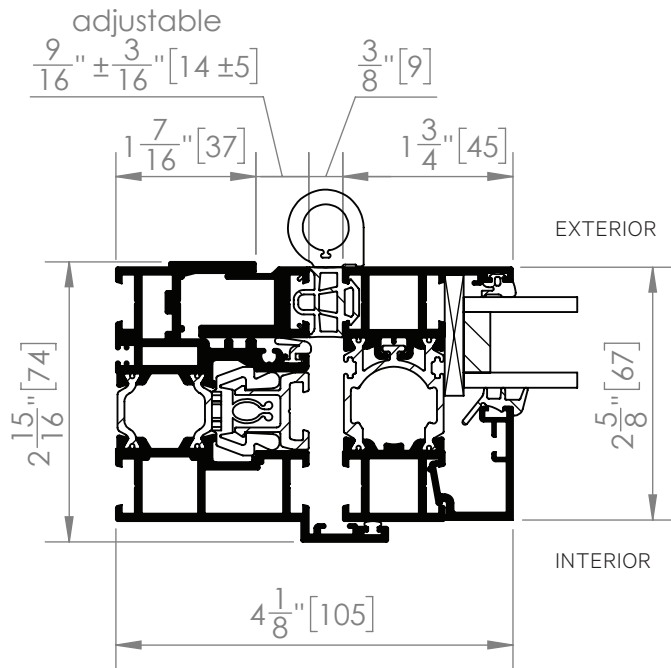


Detail 33.1
Surface Mounted Flush Sill

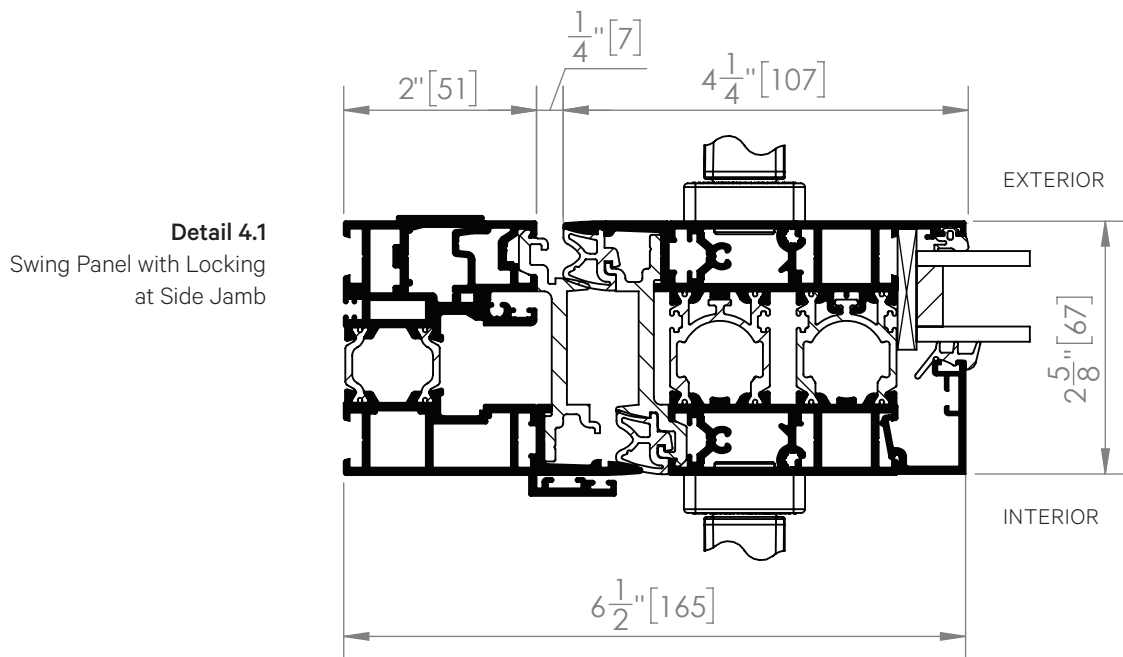


Detail 24.1
Flush Sill

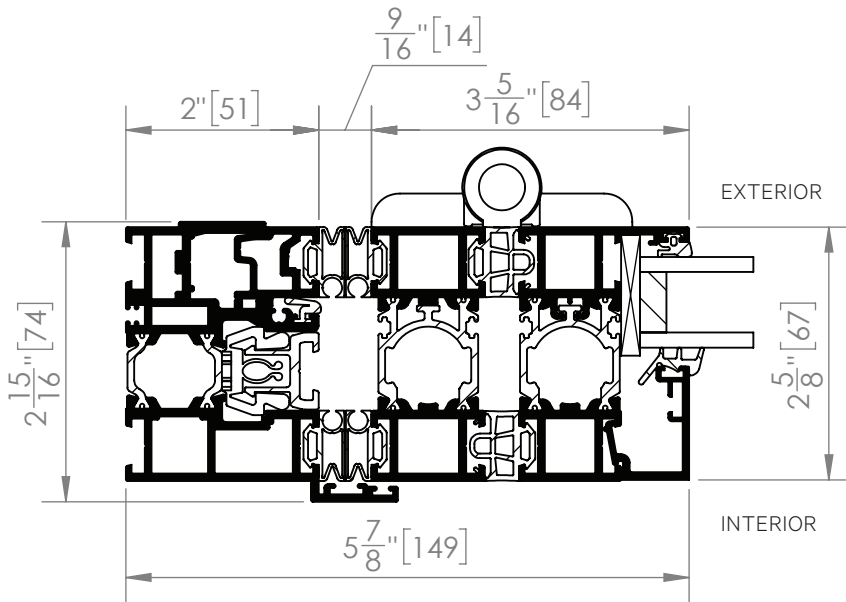




Detail 3.1
Panel Hinged to Side Jamb

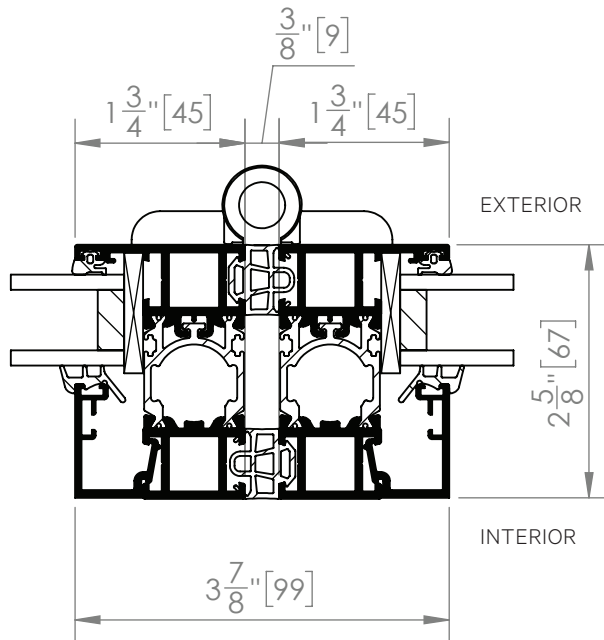


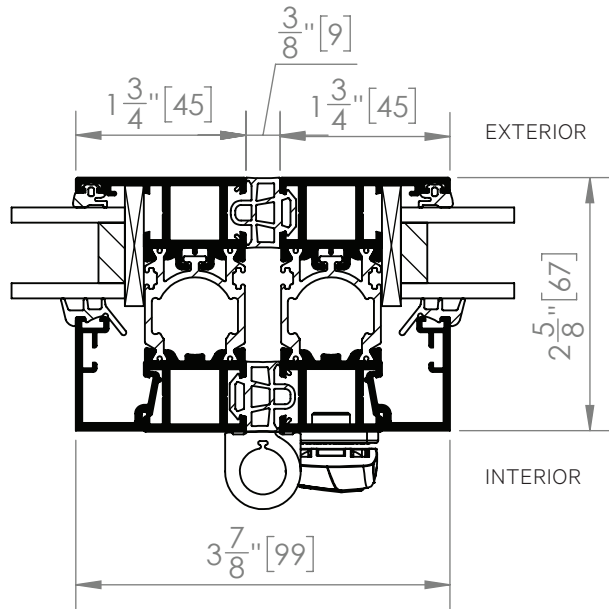
Detail 4.1
Swing Panel with Locking
at Side Jamb



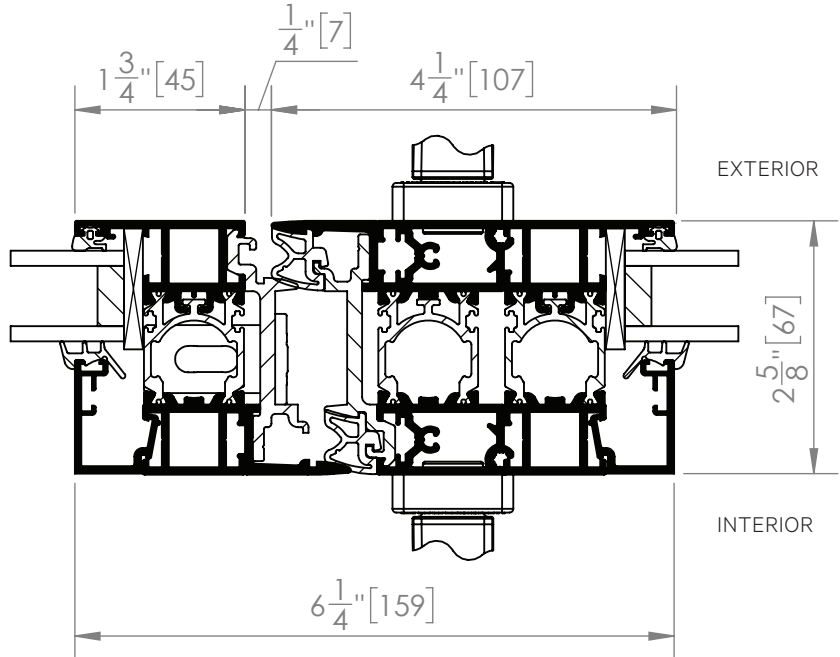
Detail 5.1
 Panel with Running Post
 and Top and Bottom Rollers
 Attached Meeting at Side Jamb

Detail 7C.1
 Hinged Folding Panels
 with Running Post and Top
 and Bottom Rollers Attached



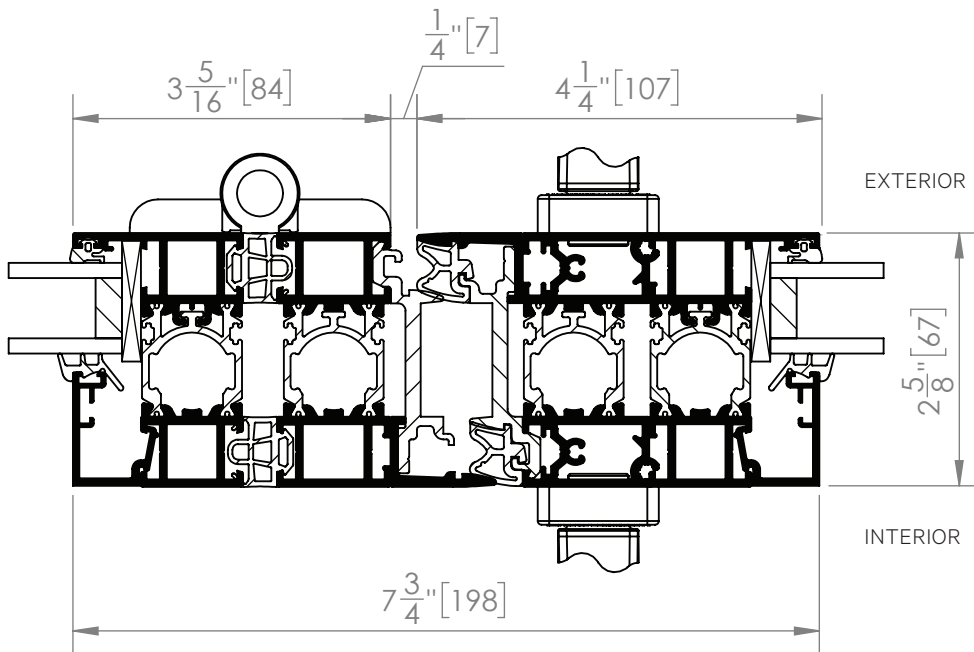
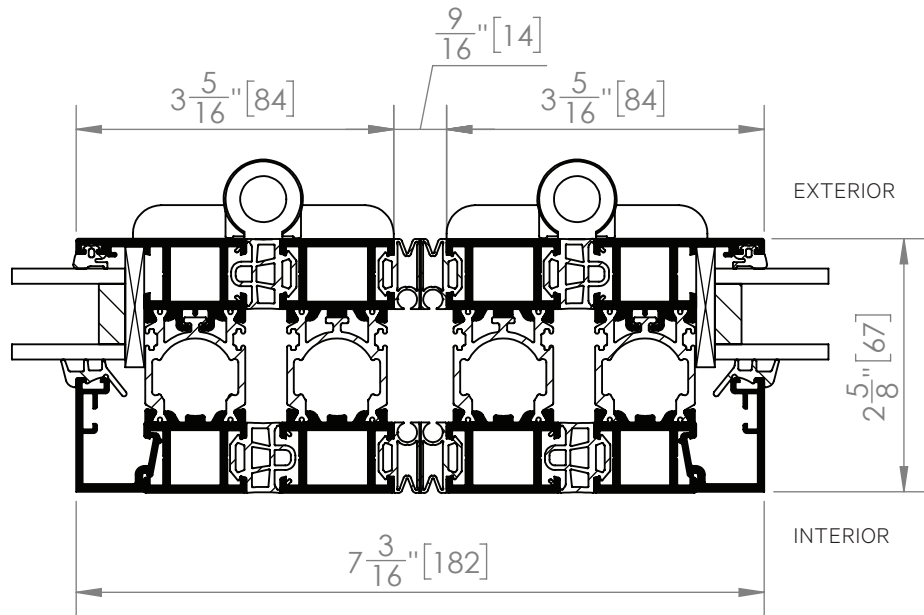


Detail 7.1
Hinged Folding Panels
with Locking

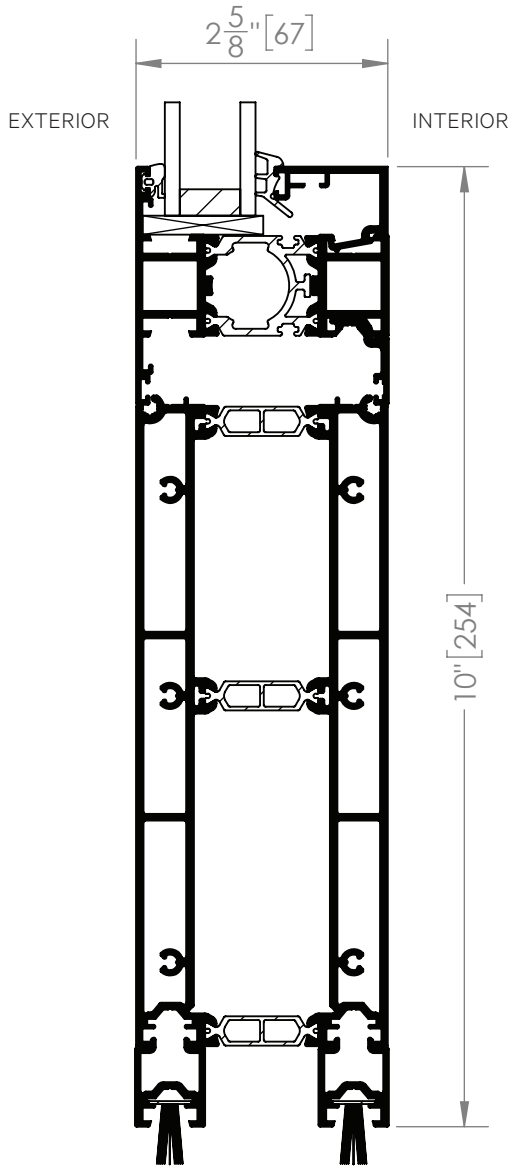


Detail 8.1
Pair of Swing Panels with Primary
Swing Panel with Lever Handle
Locking on Right and Secondary
Swing Panel with Concealed
Edge Lock on Left

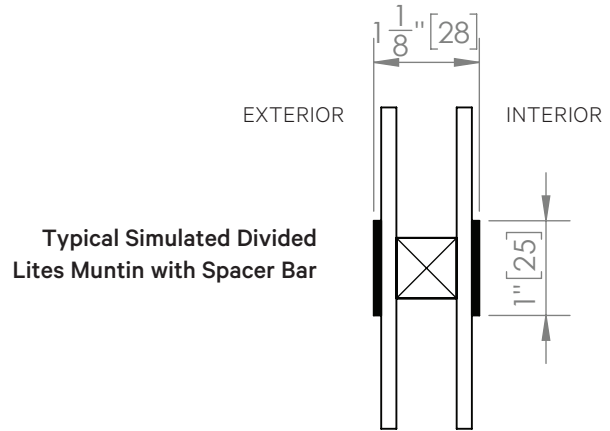
Detail 9.1
Meeting of Folding Panels
with Running Post and Top
and Bottom Rollers Attached



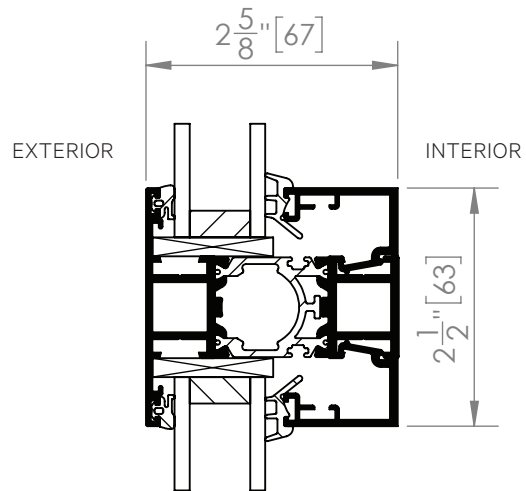
Detail 10.1
Meeting of Swing Panel
with Locking and Folding
Panel with Running Post
and Top and Bottom Rollers
Attached



Typical Higher Bottom Rail

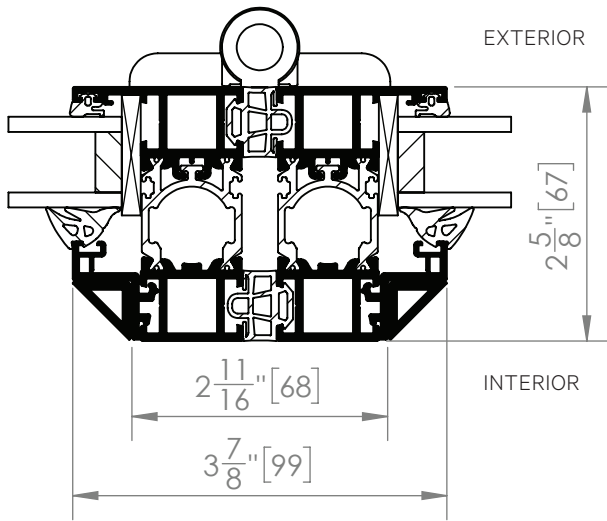


Typical Simulated Divided Lites Muntin with Spacer Bar

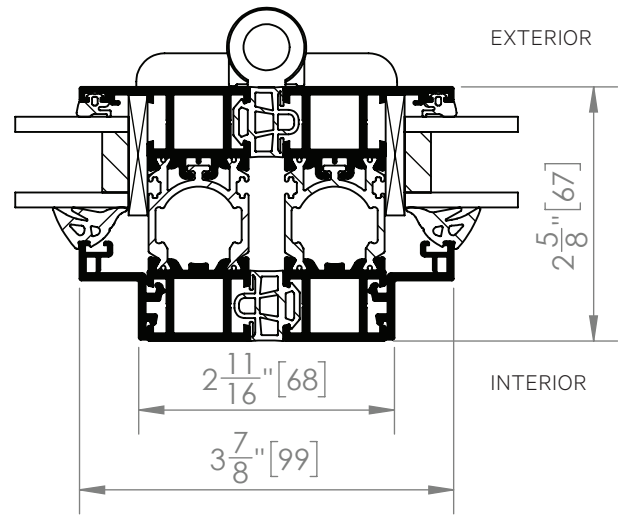


Typical Mullion Profile

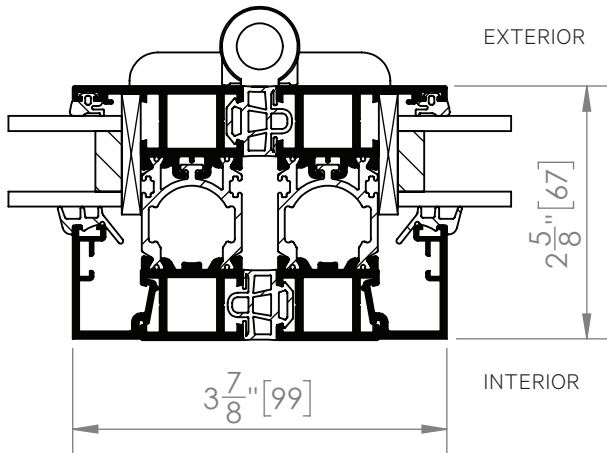
Steel Effect Glass Stop Options



Classic



Contemporary



Standard

Suggested Typical Installation

INSTALLATION NOTES

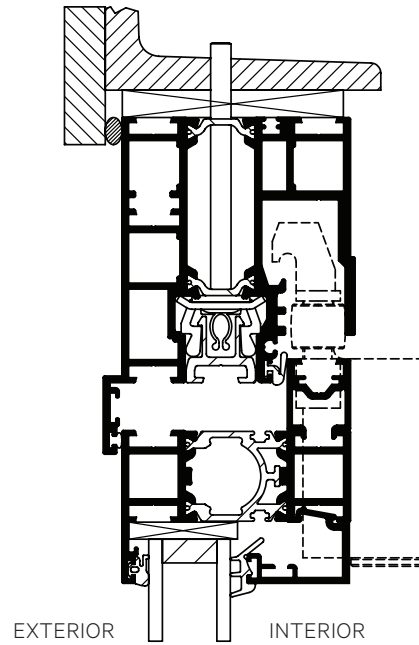
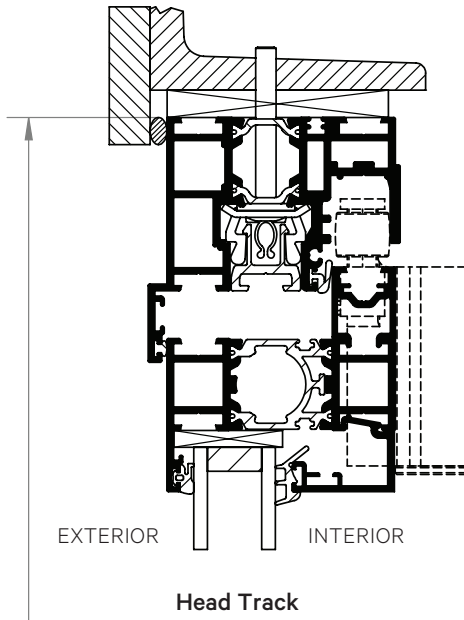
Suggested Typical Installation drawings shown are very general and may not be suitable for any particular installation. Product placement, fasteners, flashing, waterproofing, sealant, trim, and other details for specific surrounding conditions must be properly designed and provided by others.

INSTALLATION CONSIDERATIONS

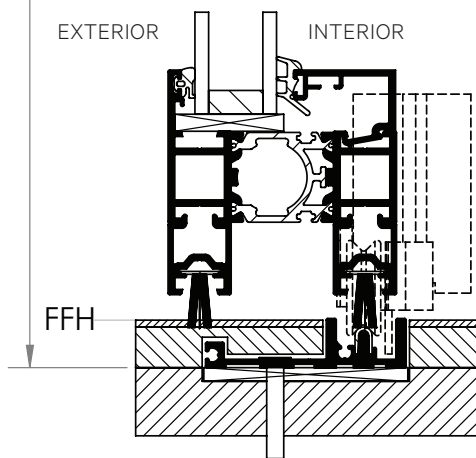
The approximate weight of a panel with double/triple glazing is 6-9 lbs/ft² (30-45 kg/m²). The maximum vertical structural deflection of the header should be ¼" (6 mm) under full live and dead loads. Although for Floor Supported systems, there is no vertical live load deflection of the header from the weight of the panels, structural support for lateral loads (both windload and when the panels are stacked open) must be provided for the header, surrounding walls, and floor. For further information, see "Preparation of the Rough Opening" section in the Installation Instructions for the applicable system. An owner's manual with these Installation Instructions is available from NanaWall or from NanaWall's website.

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 to be imposed on the header, then only the building's live load can be used to account for the above maximum header deflection of ¼" (6 mm). There may be additional structural requirements not mentioned here.

Inward Opening Details



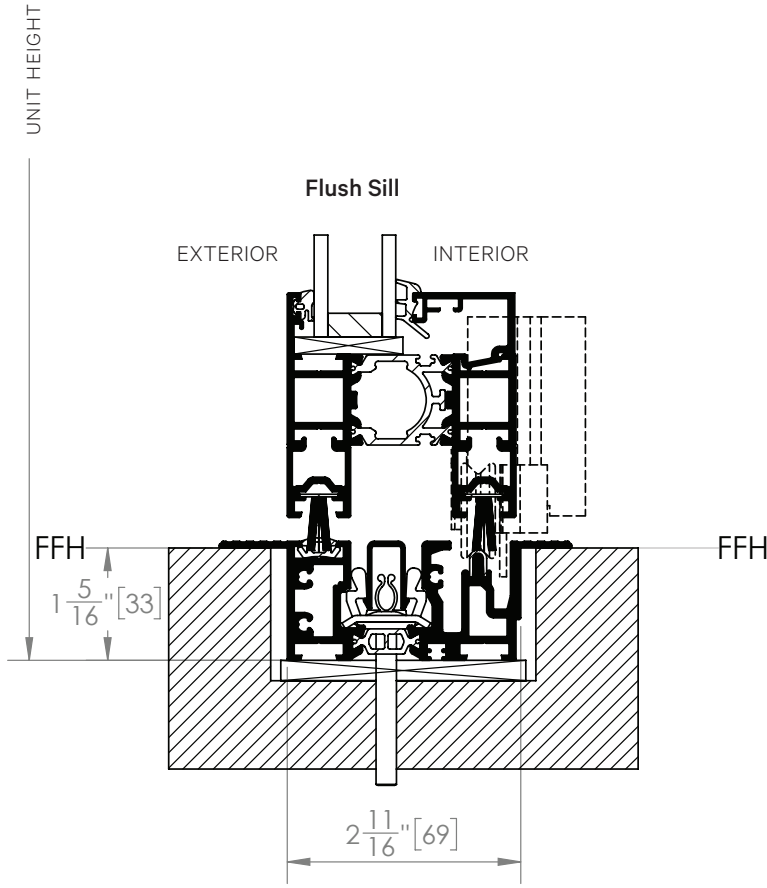
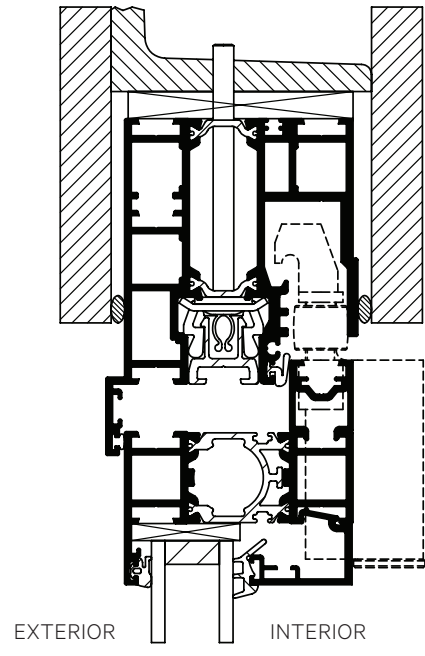
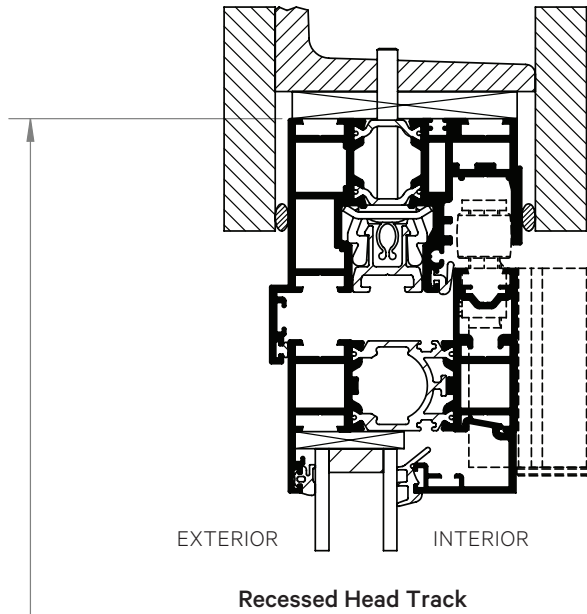
UNIT HEIGHT



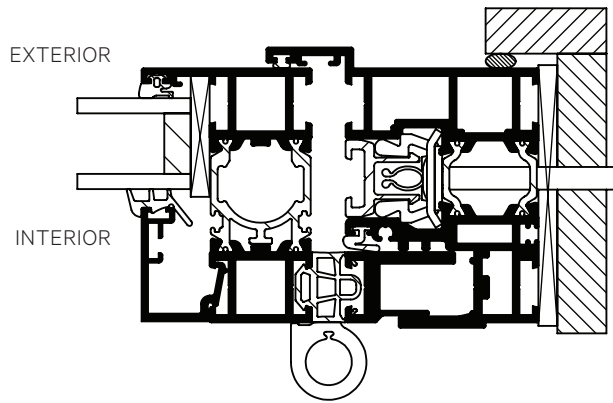
Surface Mounted Flush Sill

(To prevent sill deflection, shims between the anchor points should be installed and any cavities between the shims should be filled with non-expanding grout. If filling with grout is not possible, continuous shims should be placed along the entire length of the sill to provide continuous solid support and level condition.)

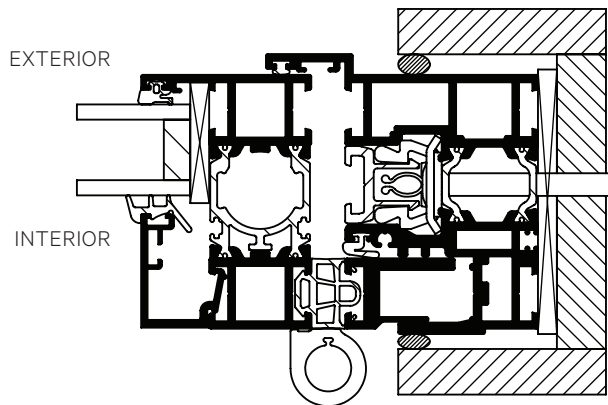
Inward Opening Details



Inward Opening Details

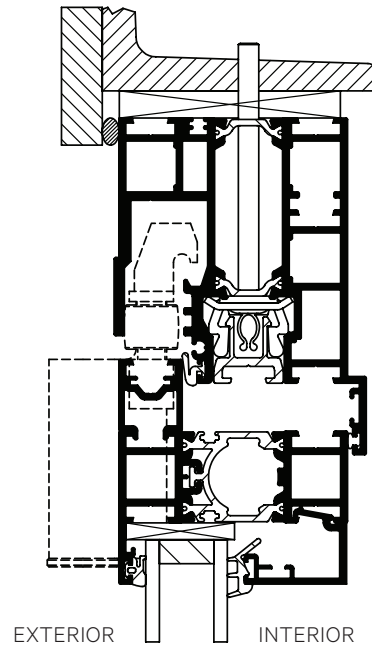
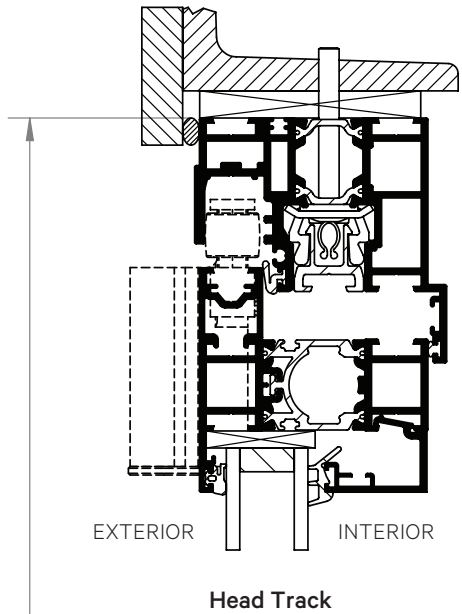


Panel Hinged at Right Side Jamb

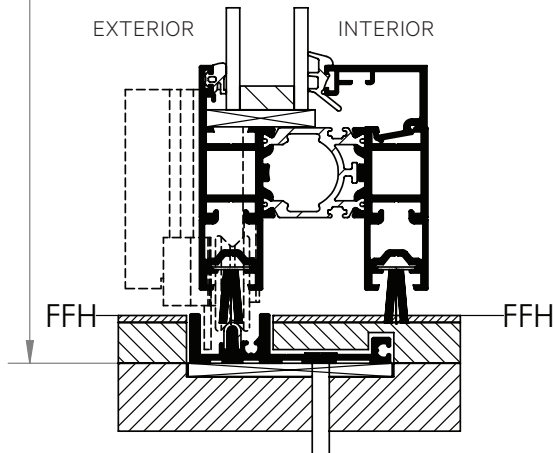


Panel Hinged at Right with Recessed Side Jamb

Outward Opening Details



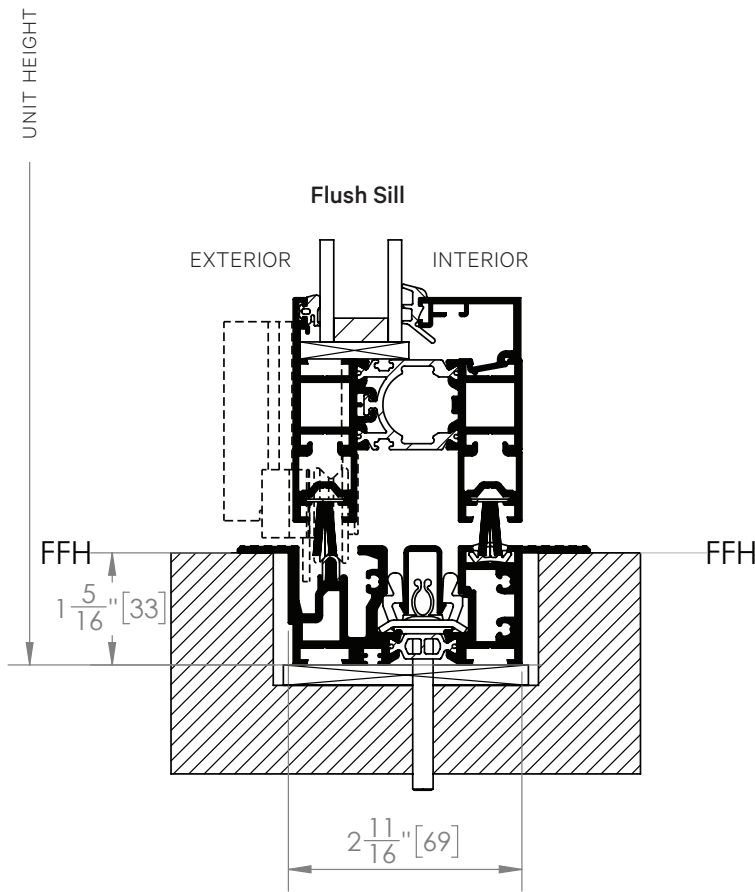
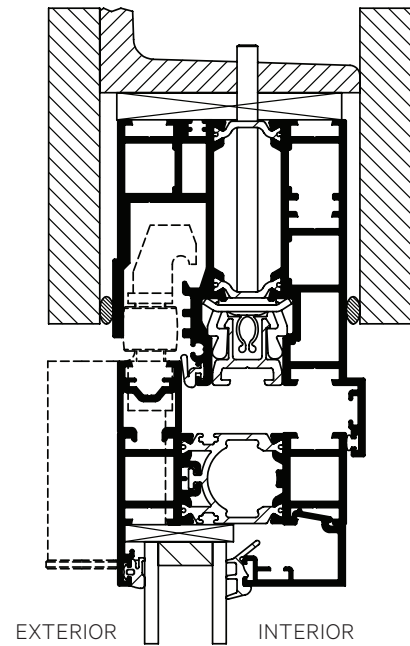
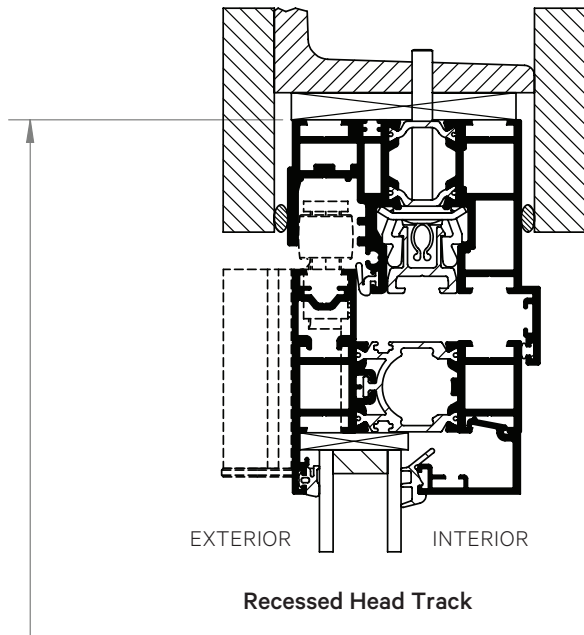
UNIT HEIGHT



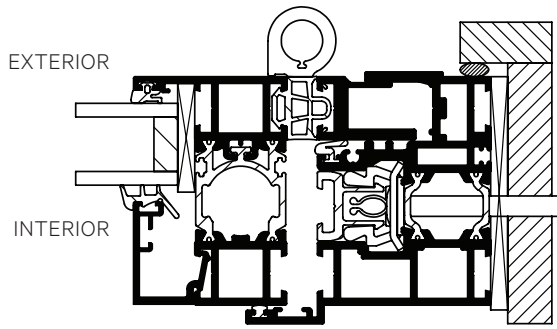
Surface Mounted Flush Sill

(To prevent sill deflection, shims between the anchor points should be installed and any cavities between the shims should be filled with non-expanding grout. If filling with grout is not possible, continuous shims should be placed along the entire length of the sill to provide continuous solid support and level condition.)

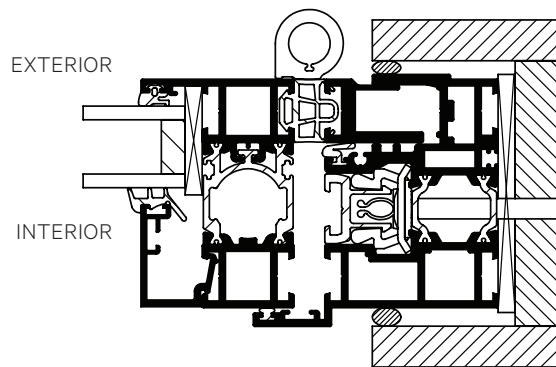
Outward Opening Details



Outward Opening Details



Panel Hinged at Right Side Jamb



Panel Hinged at Right with Recessed Side Jamb