

Architectural Binder Section ClimaCLEAR[™]



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ClimaCLEAR™—All Glass Single Track Sliding System for Weather Protection

Control Outdoor Elements Transparently

NanaWall ClimaCLEAR is the only frameless all glass individual panel sliding system specifically engineered for transparent weather protection. Patented (Patent No. US10590694), non-thermally broken single pane, ClimaCLEAR has been independently tested and rated, making it the choice for flexible space management solutions for outdoor spaces for both residential and commercial applications.

ClimaCLEAR allows for maximum transparency with no vertical stiles providing natural daylight, open views, and a clean, modern appearance making it suitable for all design styles. Whether the system is open or closed, it virtually disappears from sight. However, when the wall is closed, the beauty of an all glass aesthetic is realized with the added benefit of weather protection and acoustical privacy.

In moderate climates, ClimaCLEAR can be used to create an indoor/outdoor lifestyle in living rooms, dining rooms, and kitchens.

In colder climates, extend the seasonal enjoyment of outdoor patios, three season rooms, or porches with ClimaCLEAR frameless glass walls. Create a transparent shelter from the elements without inhibiting the connection to the outdoors while also providing protection for outdoor furniture.

In commercial settings or sport venue applications, ClimaCLEAR allows for maximum viewing and unobstructed sightlines even when closed.

Transparent Vertical Weather Seals

Standard between all sliding panels and single action end panels are super clear vertical seals to seal against wind driven rain and to reduce air infiltration. The seals virtually disappear from sight. Light transmittance (LT) of the weather seals has been independently tested and rated for 75% clarity and luminosity.

Patented (Patent No. US10590694) Panel Interlocks to Help Keep the Weather Out

Proprietary male/female panel interlocks at the top and bottom rails are designed to keep the weather out. Panel floor bolts are foot activated effectively locking the panel into place without the need to kneel down. These foot activated floor bolts have bumpers to avoid metal-to-metal contact.

Horizontal Dual Sided Brush Seals

All horizontal continuous door rails come standard equipped with double fin brush seals on both sides, top and bottom, for weather protection.

ADA-Complaint Sill with Engineered Water Drainage System

ClimaCLEAR comes standard with a recessed low profile saddle sill that provides an engineered water management system. Weep holes for drainage by others are needed to inhibit water intrusion. The low profile saddle sill is ADAcompliant.

Intelligent Rollers for Single Hand Operation

The unique "intelligent" rollers and guide technology ensure easy, trouble-free, single hand operation for moving individual panels. The rollers are designed using hardened encapsulated steel ball bearings with glass fiber reinforced polyamide wheels with memory effect for quiet and smooth operation. Furthermore, polyamide bumpers are located on the side of the carrier to avoid metal-to-metal contact of the carriers inside the track.

Single Track Individual Panel Sliding System for Limitless Layout Flexibility

Offering complex design flexibility, the single track individual panel design is able to create an unlimited span of top-hung panels for straight openings of any size. ClimaCLEAR is available in various configurations from standard stacking to Window Door Combination, 90° Open Corner, and 135° Segmented Corner opening. No "train station" effect from multiple floor tracks.

Security in an All Glass System

Structural integrity of the system is achieved through the combination of strong rollers, the clamping of the 1/2" (12 mm) monolithic glass, and through panel locking. Each closed panel of ClimaCLEAR can be securely locked in place. The system has passed forced entry requirements.

4 1/8" Continuous Rail for Outstanding Aesthetics

The ClimaCLEAR system comes standard with a narrow 4 1/8" (104 mm) continuous top and bottom horizontal rail allowing for a beautiful aesthetic and maximum glass.



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Customizable Stacking Options for Space Management

To optimize space management or to solve unique design challenges, stacking options and minimal parking bays can be designed with total customization. See <u>www.</u> <u>nanawall.com/resources/climaclear/configurations/parkingbay-configurations</u> for animations of sample stacking configurations.

Single Action End Panel Attached to the Side Jamb for Easy Egress

For easy access, ClimaCLEAR configurations come standard with a single action end panel equipped with a top door closer at the side jamb. To meet the needs of traffic patterns, also available is a single action end panel with top door closer at both ends of the system. The swing panel with offset hinge allows for a maximum 150° inswing or 110° outswing and has been commercially tested to 500,000 opening and closing cycles. To meet ADA requirements, an acrylic chamfer rail is available to maintain the consistent glass line with adjacent panels.

Non-Entry Single Action End Panel Attached to the Side Jamb for Compact Stacking

To meet the needs of designs requiring more compact parking bays, the single action end panels can be as narrow as 1' 8" (500 mm) to accommodate space/layout requirements. These non-entry single action end panels, attached to the side jamb, are equipped with a standard locking feature on the top and bottom rails. A full 180° panel swing is possible.

Glazing Options

Standard glass supplied is 1/2" (12 mm) tempered. All vertical edges of the glass panels come polished and miter cut to create a clean finish. To reduce glass stress, glass is clamp installed to the rail for equal distribution of weight.

Also available is laminated glass for safety, security, acoustical separation, and/or UV protection in areas with lower structural requirements. Special glazing options include acoustical laminated glass 1/2" (13 mm) with a double interlayer achieving a unit STC 34 and OITC 28 and for stadium use, laminated glass 9/16" (13.5 mm) with a quadruple interlayer.

Other options including low iron, frosted, tinted, and white glass are possible.

Tall Heights and Wide Widths

Panels are available up to 10' 6" (3200 mm) in height, dependent on windload requirements, and up to 4' 1" (1250 mm) in width. Single action end panels are available up to 3' 7" (1100 mm) in width. The number of panels in a system is unlimited.

Please confirm with local codes on height limits with 1/2" (12 mm) thick glass.

In tight stacking conditions where a swing door is not required, a minimal 1' 8" (500 mm) non-entry single action end panel is available.

Single Action End Panel Hardware Options:

Reverse Locking Ladder Pull Handle

Standard to the single action end panel is the Reverse Locking Ladder Pull brushed stainless steel finish handle/ locking system with the handle starting at hand height and extending up to the top rail. Reverse Locking Ladder Pull integrates a locking mechanism with a mortise key/key cylinder lock, with thumb turn operation from inside and key operation from outside. At the bottom rails, a mortise key/key cylinder will be provided.

Push/Pull Handle

ClimaCLEAR can also be configured with custom-made brushed stainless steel finish door pull options with built-in bumpers to protect against metal-to-glass contact. Other finish options, such as anodized or powder coated RAL colors, are also available (contact NanaWall for details). For single action end panels with push/pull handles, a surface mounted locking box with crank handle will be added at the top rail and the bottom rail will be outfitted with a half mortise cylinder or an optional foot activated floor bolt.

Also available is a push plate with pull handle option. If requested, NanaWall Systems will also prep the glass to accept door pulls provided by others in order to match project specific designs.

Door Closers

For single action end panels with offset hinges hinged to the side jamb, a top door closer with hold open function is provided. Single action end panels are limited by door closer to 150° door inswing or 110° outswing.



Finish Options for Head Track, Door Rails, Side Jambs, and Sill

Available standard door rail, head track, and side jamb finish is clear anodized. Options include: brushed anodized, dark bronze anodized, and black anodized. Custom colors and standard RAL colors are also an available. To match the ceiling, recessed head track is offered with powder coat RAL 9016 Traffic White finish.

The low profile saddle sill is available either in a clear or dark bronze anodized finish.

Matching End Caps

For added aesthetic value, end caps will be in coordinating colors.

Differential Deflection

To meet the IBC 2403.4 code for larger panels with 1/2" (12 mm) glass, H-profile is standard between sliding panels. A h-profile is supplied for a single action end panel adjacent to a sliding panel.



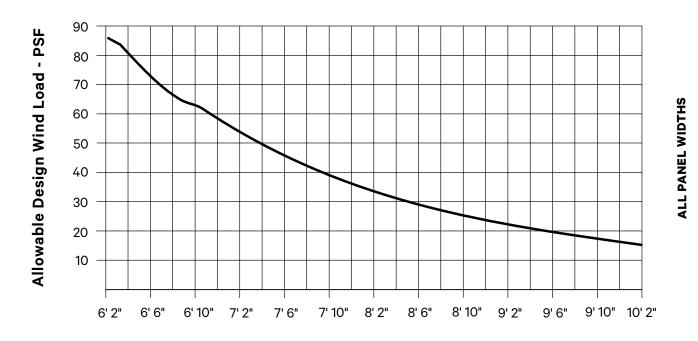




DESIGN WINDLOAD CHART - CLIMACLEAR

Applies to Both Positive and Negative Design Pressures

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



PANEL HEIGHT

ClimaCLEAR with 1/2" (12 mm) Tempered Glass

Design Windload Chart (Derived from both Glass Strength and Deflection Comparative Analysis).

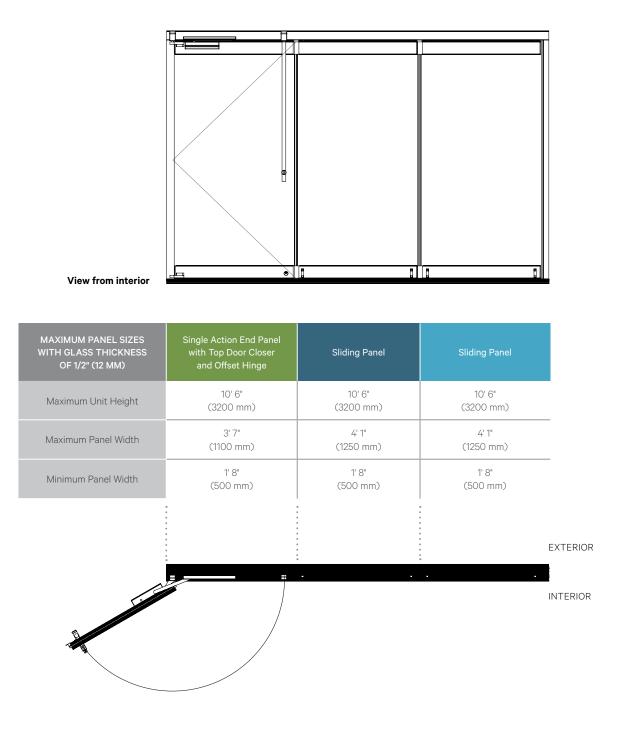
Both Positive and Negative Design Pressures, Test Panel Height: 8' 4"

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 and is not accounted for any water rating or L/175 deflection restrictions.

* 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.



Maximum Size Chart for ClimaCLEAR



The individual panels can also be of differing widths.

Maximum sizes for 1/2" (12 mm) as shown is per Glass Association of North America (GANA) recommendations, provided that the supplied H-Profiles are field installed between sliding panels.

Applicable codes and/or structural requirements may limit the maximum sizes possible to be less than what NanaWall allows.



Please see referenced cross-section details. Should you require design assistance on the many parking bay possibilities, please consult https://www.nanawall.com/professionals/design-assistance. NanaWall Systems offers a complimentary 3D Conceptual Drawings service and 3D Configurator for CAD/Revit/Specs to help in the design/development process.

Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

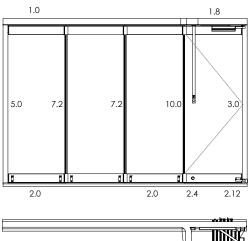
PARKING BAY A

with Single Action End Panel

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Boundaries Unbound

Perpendicular stacking in the opening with single action end panel with top door closer and offset hinge

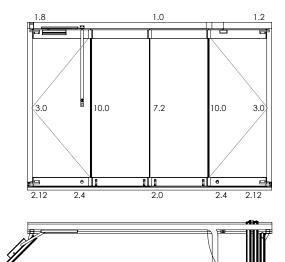




PARKING BAY A

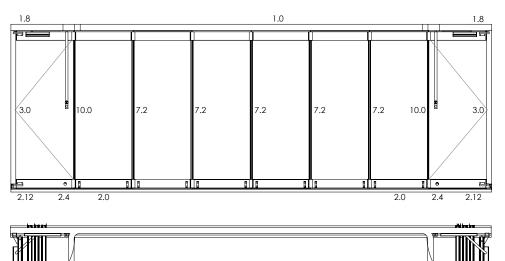
with Single Action End Panel and Non-Entry Single Action End Panel at Other End

Perpendicular stacking in the opening with single action end panel with top door closer and offset hinge at the left and a non-entry single action end panel at the right with additional top track locking





Perpendicular stacking in the opening with single action end panel with top door closer and offset hinge at both ends



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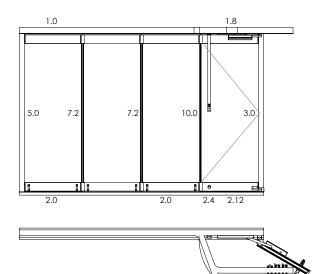
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Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

PARKING BAY I

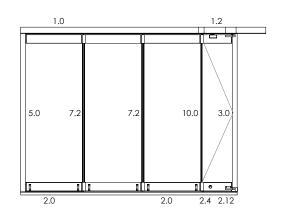
with Single Action End Panel

Perpendicular stacking outside the opening with single action end panel with top door closer and offset hinge



PARKING BAY I with Non-Entry Single Action End Panel

Perpendicular stacking outside the opening with non-entry single action end panel with offset hinge and additional top track locking







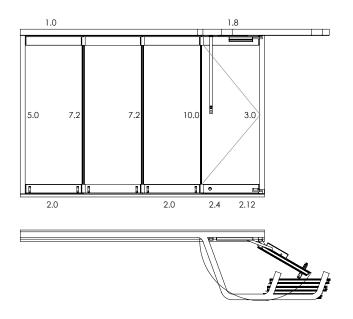
Please see referenced cross-section details. Should you require design assistance on the many parking bay possibilities, please consult https://www.nanawall.com/professionals/design-assistance. NanaWall Systems offers a complimentary 3D Conceptual Drawings service and 3D Configurator for CAD/Revit/Specs to help in the design/development process.

Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

PARKING BAY E

with Single Action End Panel

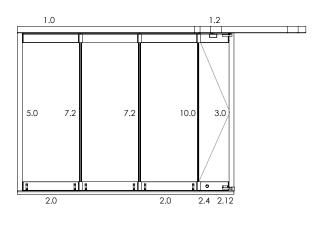
Parallel stacking outside the opening with single action end panel with top door closer and offset hinge



PARKING BAY E

with Non-Entry Single Action End Panel

Parallel stacking outside the opening with non-entry single action end panel with offset hinge and additional top track locking







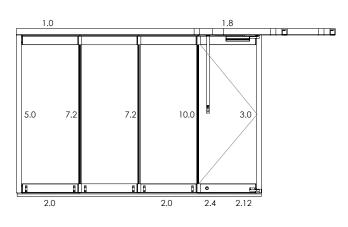
Please see referenced cross-section details. Should you require design assistance on the many parking bay possibilities, please consult https://www.nanawall.com/professionals/design-assistance. NanaWall Systems offers a complimentary 3D Conceptual Drawings service and 3D Configurator for CAD/Revit/Specs to help in the design/development process.

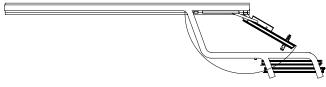
Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

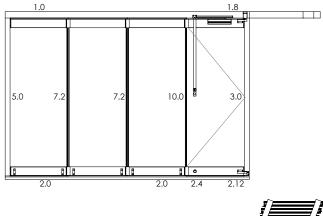
PARKING BAY G

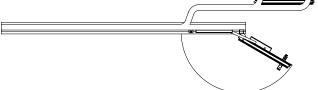
with Single Action End Panel

Parallel stacking outside the opening with single action end panel with top door closer and offset hinge





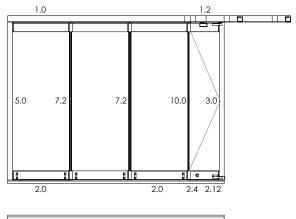




PARKING BAY G

with Non-Entry Single Action End Panel

Parallel stacking outside the opening with non-entry single action end panel with offset hinge and additional top track locking







Parallel stacking to one side of the opening with single action end panel with top door closer and offset hinge to the other side



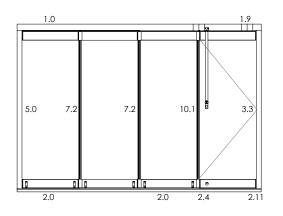
Please see referenced cross-section details. Should you require design assistance on the many parking bay possibilities, please consult https://www.nanawall.com/professionals/design-assistance. NanaWall Systems offers a complimentary 3D Conceptual Drawings service and 3D Configurator for CAD/Revit/Specs to help in the design/development process.

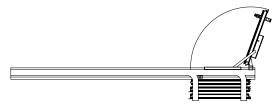
Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

PARKING BAY L

with Single Action End Panel

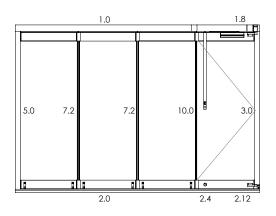
Parallel stacking within the opening with single action end panel with top door closer and offset hinge to the opposite side

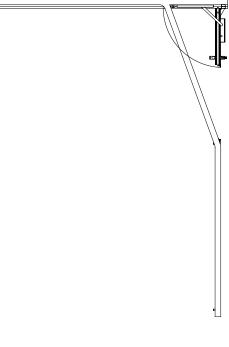




PARKING BAY R with Single Action End Panel

Perpendicular stacking outside the opening along the wall with single action end panel with top door closer and offset hinge







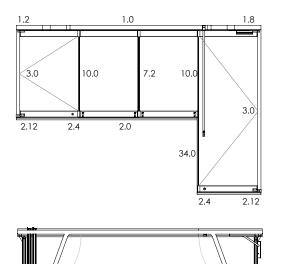
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Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

PARKING BAY A

Window Door Combination Configuration with Single Action End Panel

Perpendicular stacking in the opening with single action end panel with top door closer and offset hinge





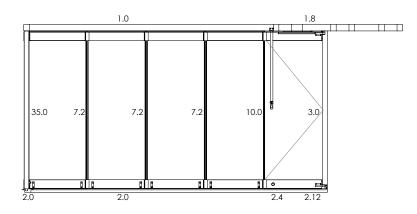
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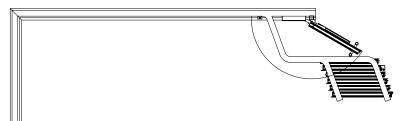
Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

PARKING BAY G

90° Open Corner Configuration with Single Action End Panel

Parallel stacking outside the opening with single action end panel with top door closer and offset hinge







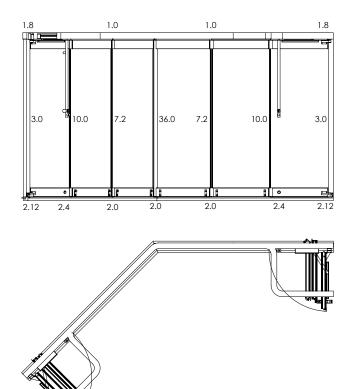
Please see referenced cross-section details. Should you require design assistance on the many parking bay possibilities, please consult https://www.nanawall.com/professionals/design-assistance. NanaWall Systems offers a complimentary 3D Conceptual Drawings service and 3D Configurator for CAD/Revit/Specs to help in the design/development process.

Note: The number of panels in a system is unlimited. Single action end panels are possible on both ends of the configuration.

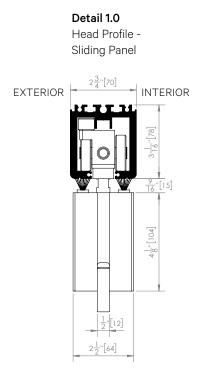
PARKING BAY A

135° Segmented Corner Configuration with Single Action End Panel at Both Ends

Perpendicular stacking in opening with single action end panels with top door closer and offset hinge

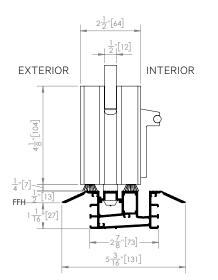






Detail 2.0 Bottom Profile - Sliding Panel with Foot Activated Floor Bolt

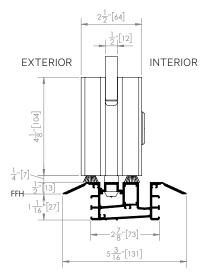
(Weep holes and drainage by others necessary for water rating.)



Detail 2.4

Bottom Profile with Mortise Key/Key Cylinder

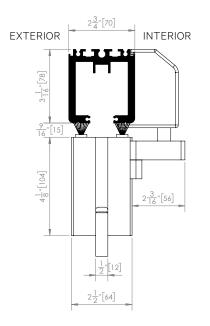
(Weep holes and drainage by others necessary for water rating.)





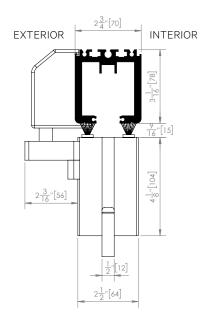
Detail 1.2

Head Profile - Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge (Inswing)



Detail 1.3

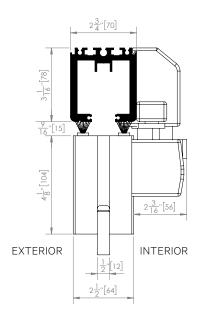
Head Profile - Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge (Outswing)





Detail 1.8

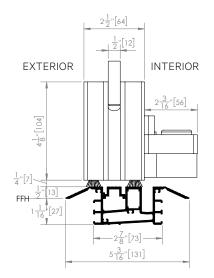
Head Profile - Single Action End Panel with Top Door Closer and Offset Hinge (Inswing) [Note: Door swing limited to 150°]



Detail 2.12

Bottom Profile - Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge (Inswing)

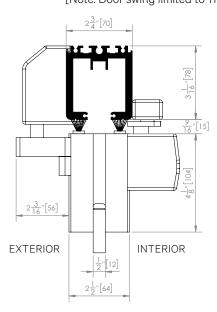
(Weep holes and drainage by others necessary for water rating.)





Detail 1.9

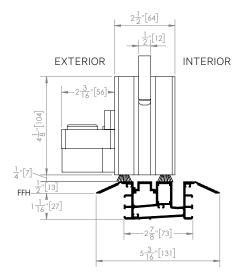
Head Profile - Single Action End Panel with Top Door Closer and Offset Hinge (Outswing) [Note: Door swing limited to 110°]



Detail 2.11

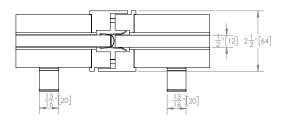
Bottom Profile - Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge (Outswing)

(Weep holes and drainage by others necessary for water rating.)



Detail 7.2

Meeting of Sliding Panels with Foot Activated Floor Bolt

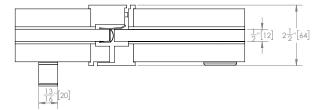


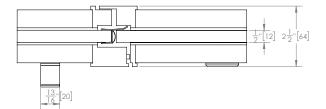
Detail 10.0

Meeting of Sliding Panel with Foot Activated Floor Bolt and Single Action End Panel or Non-Entry Single Action End Panel with Mortise Key/Key Cylinder (Inswing)



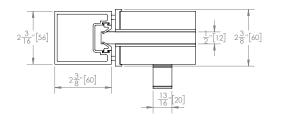
Meeting of Sliding Panel with Foot Activated Floor Bolt and Single Action End Panel or Non-Entry Single Action End Panel with Mortise Key/Key Cylinder (Outswing)





Detail 5.0

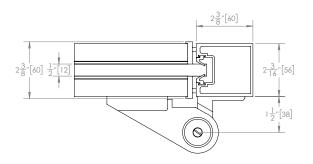
End Sliding Panel with Foot Activated Floor Bolt and Side Jamb





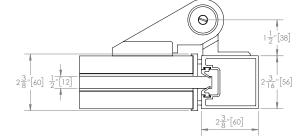
Detail 3.0

Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge at Side Jamb (Inswing)



Detail 3.3

Single Action End Panel and Non-Entry Single Action End Panel with Offset Hinge at Side Jamb (Outswing)





Detail 34

Window Door Combination; Single Action End Panel Meeting the Knee Wall

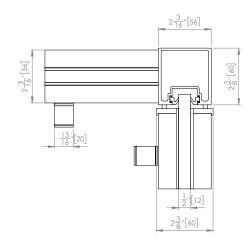


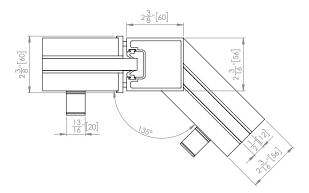
Detail 35

90° Open Corner; 2 Sliding Panels Meet at Corner Post with Foot Activated Floor Bolts



135° Segmented Corner; 2 Sliding Panels Meet at Corner Post with Foot Activated Floor Bolts

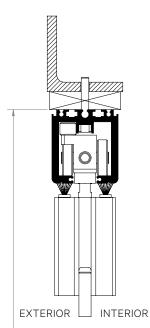


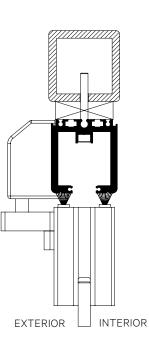


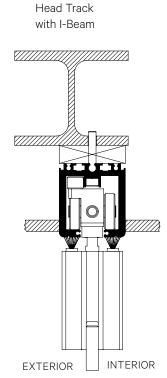


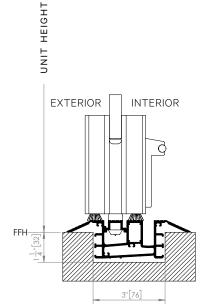
Head Track with L-Bracket



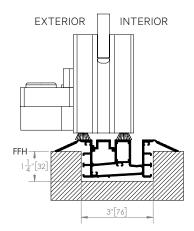




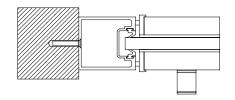




Low Profile Saddle Sill with Foot Activated Floor Bolt

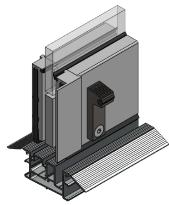


Low Profile Saddle Sill with Offset Hinge

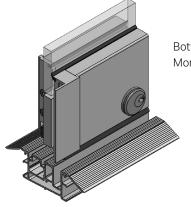


Side Jamb for End Sliding Panel

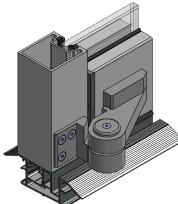




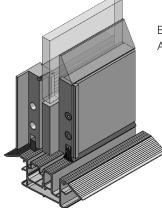
Bottom Profile with Foot Activated Floor Bolt and Low Profile Saddle Sill



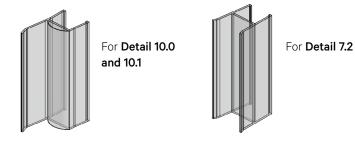
Bottom Profile with Mortise Key/Key Cylinder



Bottom Profile of Single Action End Panel and Non-Entry Single Action End Panel with Height Adjustable Offset Hinge



Bottom Profile with Acrylic Chamfer



Transparent Vertical Weather Seals



