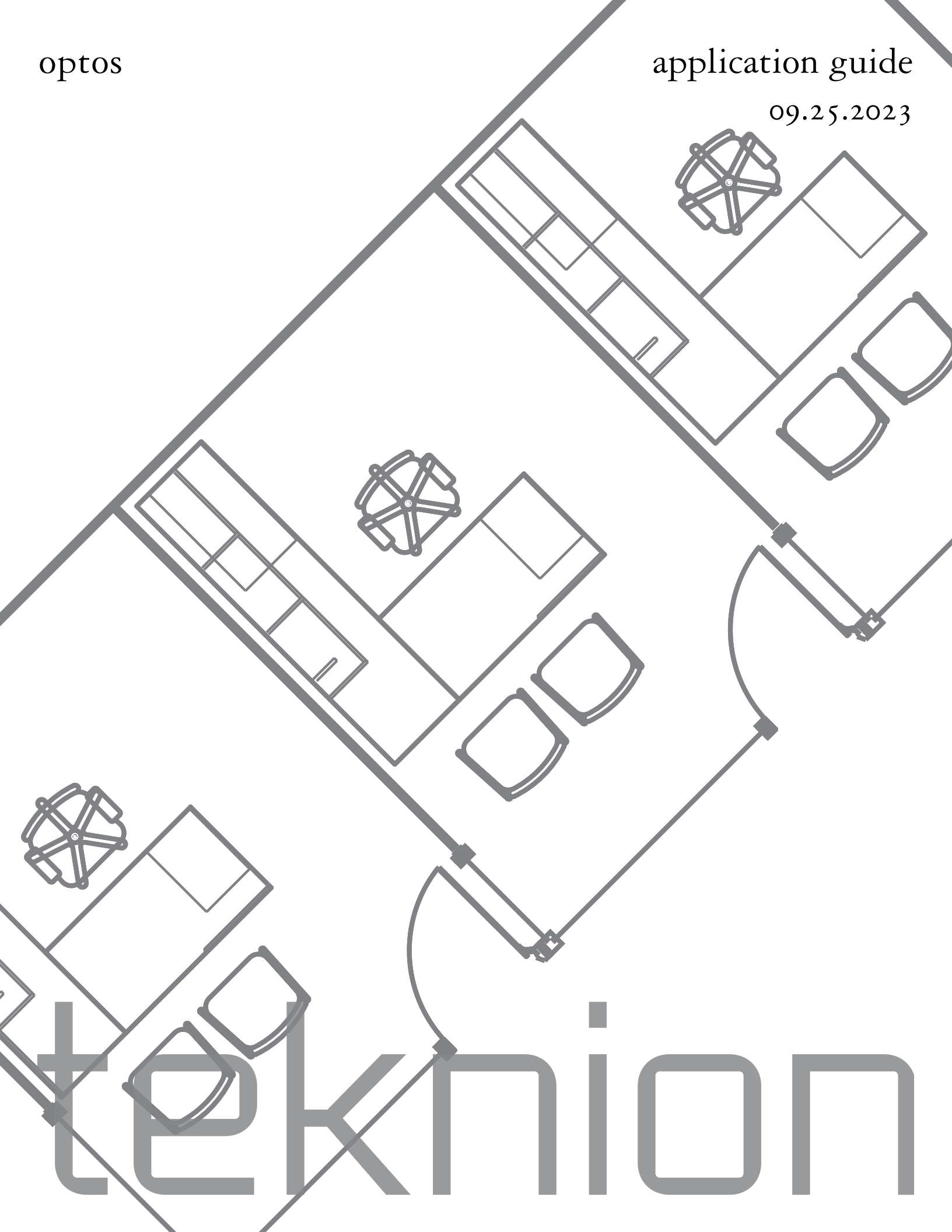
optos

application guide

09.25.2023

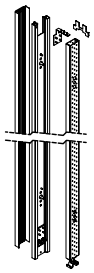


tekнion

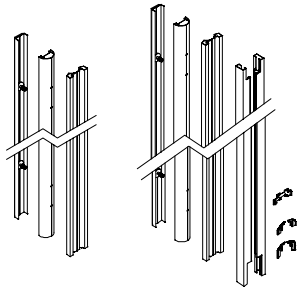
application guide

frames – 10mm

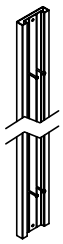
F Z W S Adjustable Wall Start



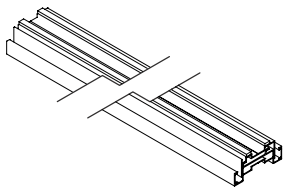
F Z F F S Variable Angle Wall Start



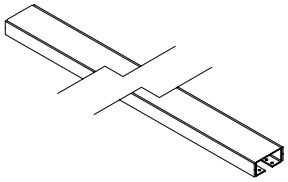
F Z F E Wall End



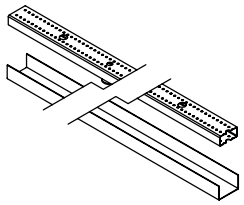
F Z F P Ceiling Top Spacer



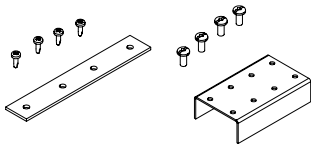
F Z F C Ceiling Frame Beam



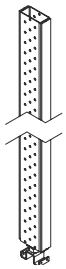
F Z F B Base Frame & Channel Assembly



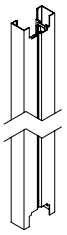
F Z F K Frame Splice Kits



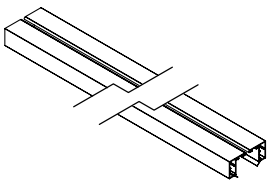
F Z F V Vertical Post



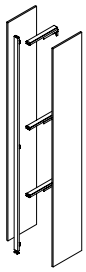
F Z F T V Vertical Trim



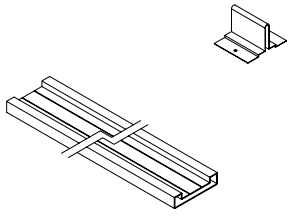
F Z F T Horizontal Trim



F Z F F Filler Panel

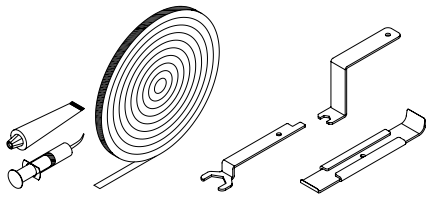


F Z P Ceiling Supports



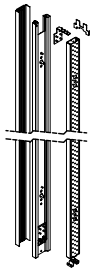
frames – 10mm (continued)

F Z T Installation Tools

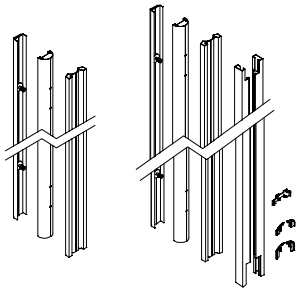


frames – 12mm

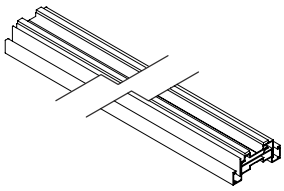
F X W S Adjustable Wall Start



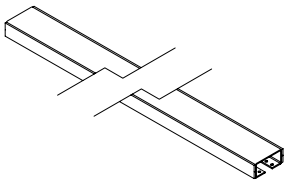
F X F F S Variable Angle Wall Start



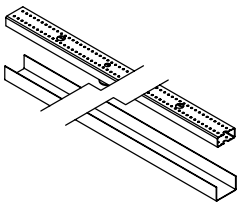
F X F P Ceiling Top Spacer



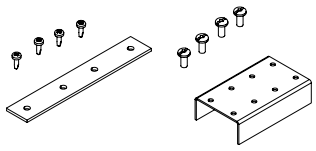
F X F C Ceiling Frame Beam



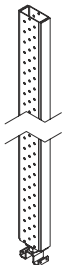
F X F B Base Frame & Channel Assembly



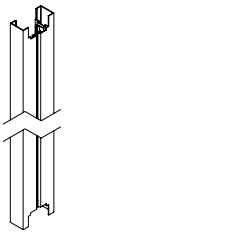
F X F K Frame Splice Kits



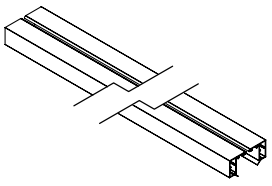
F X F V Vertical Post



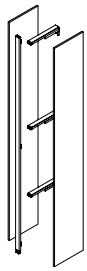
F X F T V Vertical Trim



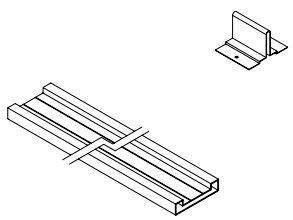
F X F T Horizontal Trim



F X F F Filler Panel



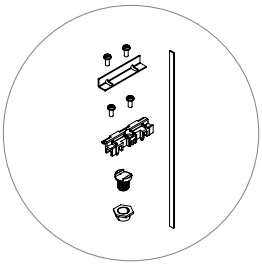
F X P Ceiling Supports



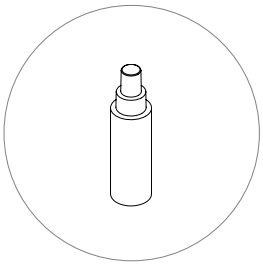
fascias – 10mm

F Z G P Glass Panel

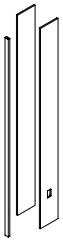
F Z G K Glass Assembly Hardware Kit



F Z A K Activator Kit



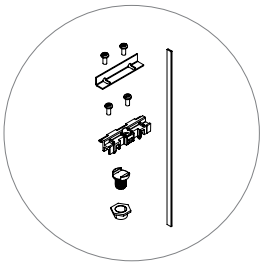
F Z S Electrical Side Panel



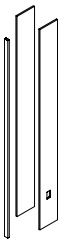
fascias – 12mm

F X G P Glass Panel

F X G K Glass Assembly Hardware Kit



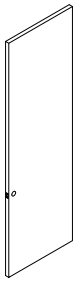
F X S Electrical Side Panel



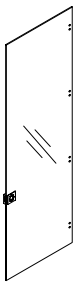
doors

Leaves

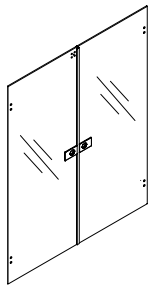
F Z S S H L Solid Hinged Door Leaf Single



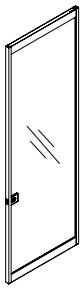
F Z S G H L Glass Hinged Door Leaf Single



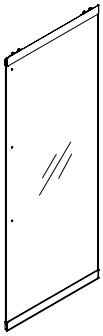
F Z D G H L Glass Hinged Door Leaf Double



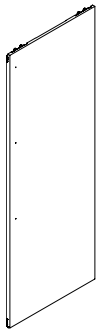
F Z S G P L Glass Pivot Door Leaf Single



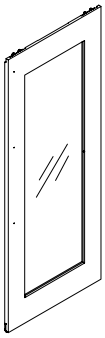
F Z S G S L Glass Sliding Door Leaf Single



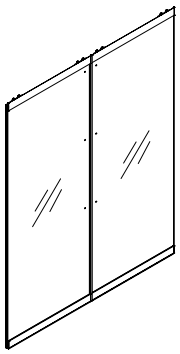
F Z S S S L Solid Sliding Door Leaf Single



F Z S N S L Solid Sliding Door Leaf with Glass Insert Single



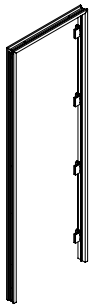
F Z D G S L Glass Sliding Door Leaf Double



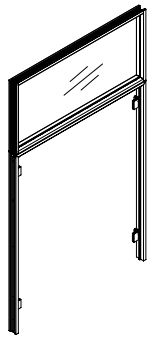
Jambs and Rails

F Z S S H F Solid Hinged Door Jamb Kit Single

F Z S G H F Glass Hinged Door Jamb Kit Single

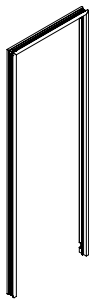


F Z D G H F Glass Hinged Door Jamb Kit Double

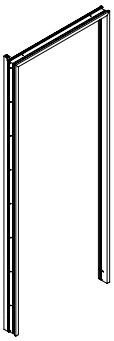


doors (continued)

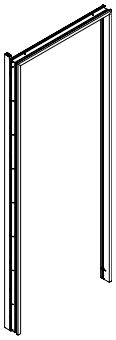
F Z S G P F Glass Pivot Door Jamb Kit Single



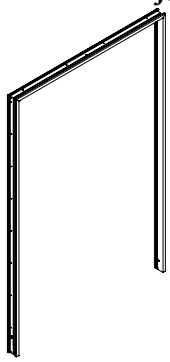
F Z S G S J Glass Sliding Door Jamb Kit Single



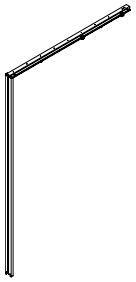
F Z S S S J Solid Sliding Door Jamb Kit Single



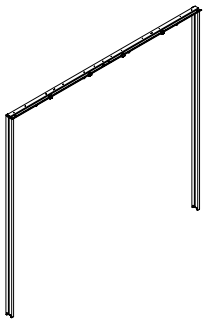
F Z D G S J Glass Sliding Door Jamb Kit Double



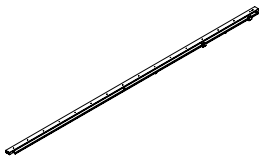
F Z S F S R Sliding Door Fixed Rail Single



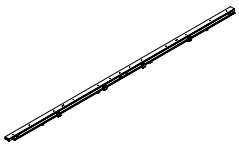
F Z D F S R Sliding Door Fixed Rail Double



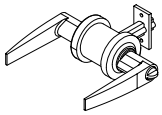
F Z S E S R Sliding Door Extended Rail Single



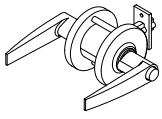
F Z D E S R Sliding Door Extended Rail Double



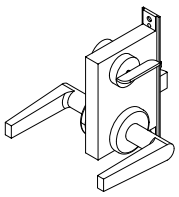
F Z H S S Door Handle Schlage S Series



F Z H S X Door Handle Schlage ALX Series



F Z H S L Door Handle Schlage L Series

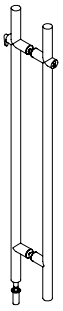


doors (continued)

Handles

F Z S C P Door Handle Ceiling Pull

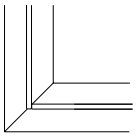
F Z S F P Door Handle Floor Pull



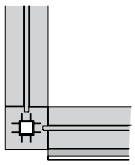
F X K K Control Key

corners & connections – 10mm

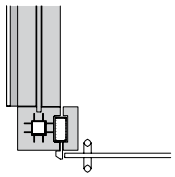
F Z C Y 2 Two-Way 90° Corner Connection



F Z C Y 2 E Two-Way Connection for Barn Door Rail

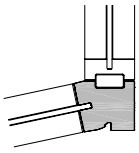


Door End or Glass, Door End or Glass

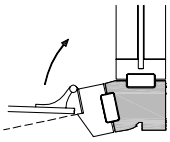


Door Start, Door End (left or right handed)

F Z F C F 2 Two-Way Articulating Corner Connection

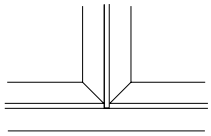


Glass (Left)

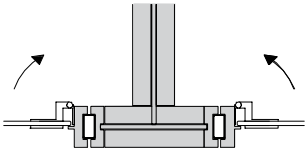


Door (Left)

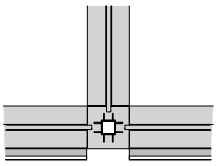
F Z C Y 3 Three-Way Corner Connection



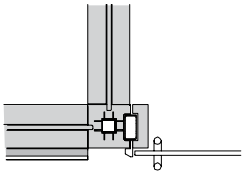
F Z C Y 3 D Three-Way Corner Connection Between Doors



F Z C Y 3 E Three-Way Connection for Barn Door Rails

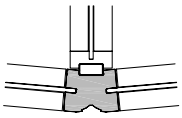


Door End or Glass, Door End or Glass

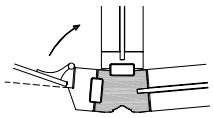


Door Start, Door End (left or right handed)

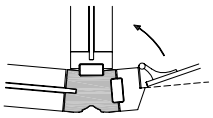
F Z F C F 3 Three-Way Articulating Corner Connection



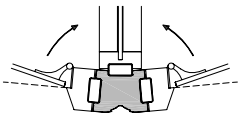
Two Glass



One Glass; One Door (Right)



One Glass; One Door (Left)

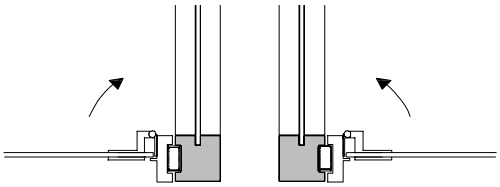


Two Doors

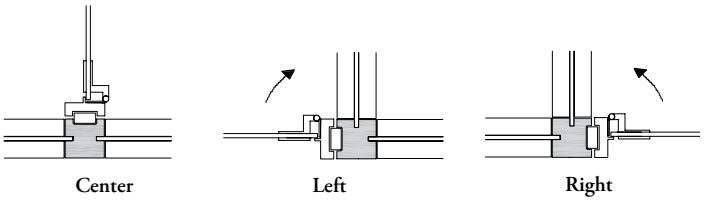
corners & connections – 10mm (continued)

Optos to Optos

F Z C Z 2 Two-Way 90° Corner Connection with Door

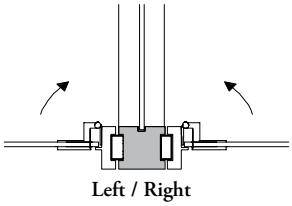


F Z C Z 3 F Three-Way Connection with One Door

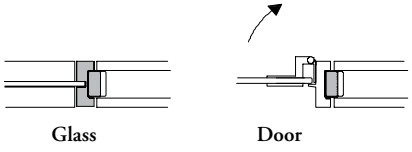


Optos to Altos

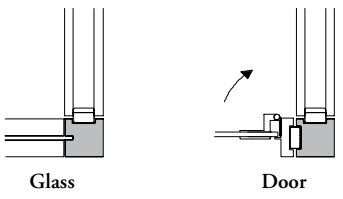
F Z C Z 3 B Three-Way Connection with Two Doors



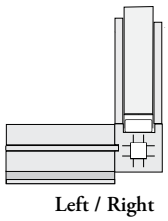
F Z C A 1 180° Connection with Altos



F Z C A 2 Two-Way 90° Connection with Altos

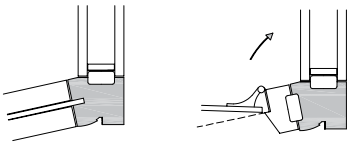


F Z C A 2 F Two-Way Connection for Barn Door Rail End with Altos



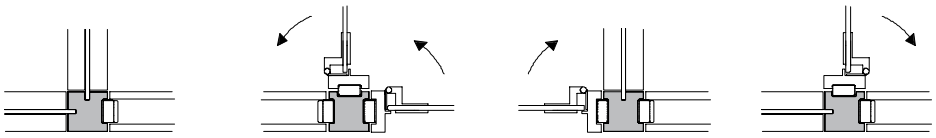
corners & connections – 10mm (continued)

F Z F C A 2 Two-Way Articulating Connection with Altos



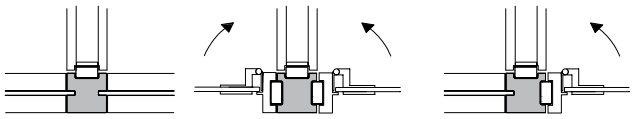
Glass (Left) Door (Left)

F Z C A 3 A Three-Way Connection with Altos – Two Optos at 90˚



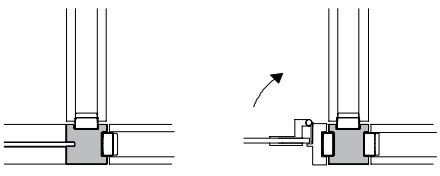
Two Glass | Two Doors | One Glass Centered, One Door In-Line | One Glass In-Line, One Door Centered

F Z C A 3 B Three-Way Connection with Altos – Two Optos at 180˚



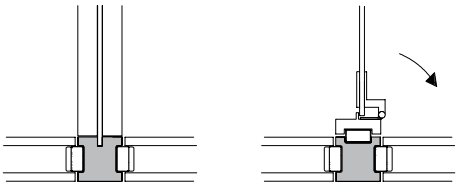
Glass | Two Doors | One Glass, One Door

F Z C A 3 C Three-Way Connection with Altos – Two Altos at 90˚



Glass Door

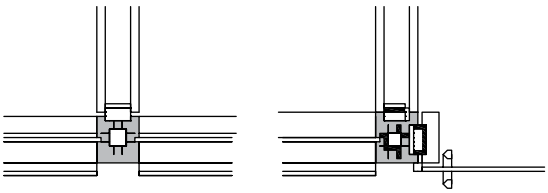
F Z C A 3 D Three-Way Connection with Altos – Two Altos at 180˚



Glass Door

corners & connections – 10mm (continued)

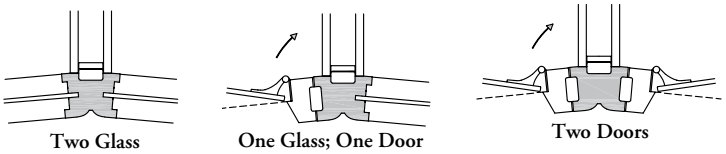
F Z C A 3 E Three-Way Connection with Altos for Barn Door Rails



Door End/Glass, Door End or Glass

Door Start, Door End

F Z F C A 3 Three-Way Articulating Connection with Altos

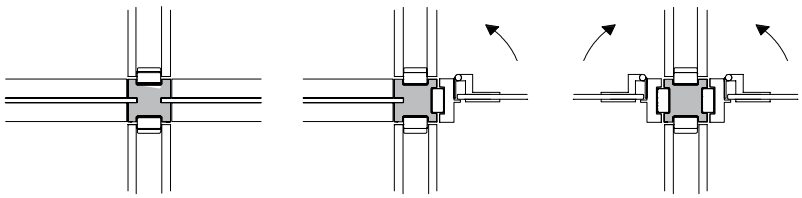


Two Glass

One Glass; One Door (Right)

Two Doors

F Z C A 4 B Four-Way Connection with Altos – Two Optos at 180˚



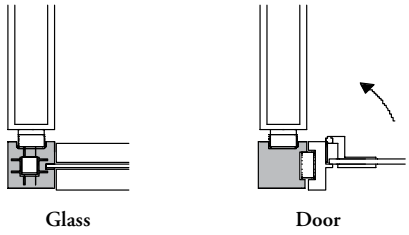
Glass

Door

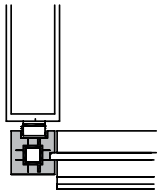
Two Doors

corners & connections – 10mm (continued)

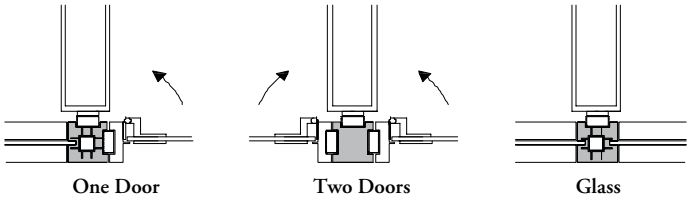
F Z C W 2 Two-Way Connection with Drywall



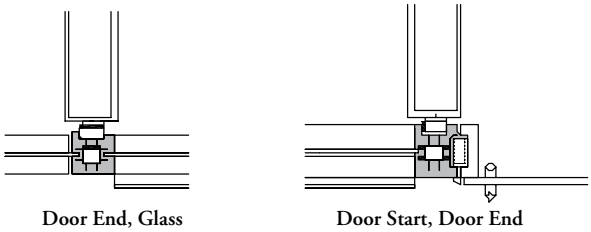
F Z C W 2 F Two-Way Connection with Drywall for Barn Door Rail End



F Z C W 3 Three-Way Connection with Drywall

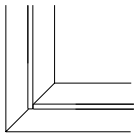


F Z C W 3 E Three-Way Connection with Drywall for Barn Door Rails

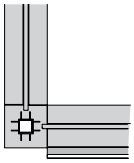


corners & connections – 12mm

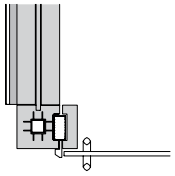
F X C Y 2 Two-Way 90° Corner Connection



F X C Y 2 E Two-Way Connection for Barn Door Rail

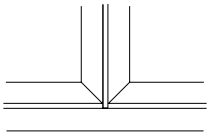


Door End or Glass,
Door End or Glass

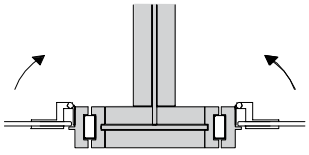


Door Start, Door End
(left or right handed)

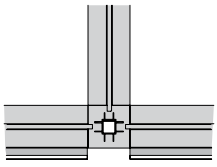
F X C Y 3 Three-Way Corner Connection



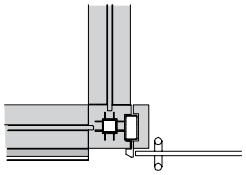
F X C Y 3 D Three-Way Corner Connection Between Doors



F X C Y 3 E Three-Way Connection for Barn Door Rails

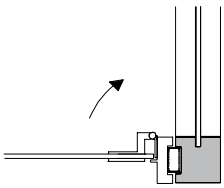


Door End or Glass,
Door End or Glass

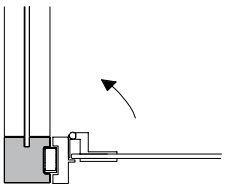


Door Start, Door End
(left or right handed)

F X C Z 2 Two-Way 90° Corner Connection with Door

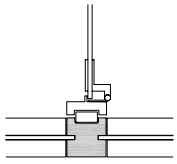


Left

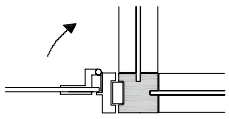


Right

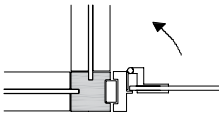
F X C Z 3 F Three-Way Connection with One Door



Center



Left



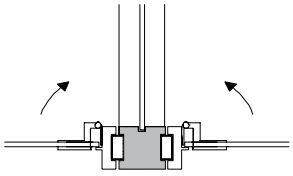
Right

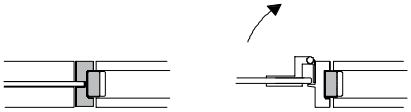
corners & connections – 12mm (continued)

F X C Z 3 B Three-Way Connection with Two Doors

F X C A 1 180° Connection with Altos

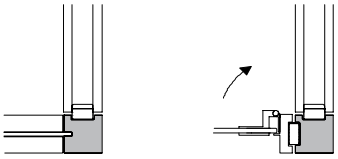
F X C A 2 Two-Way 90° Connection with Altos



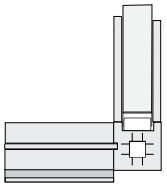


Glass Door

F X C A 2 F Two-Way Connection for Barn Door Rail End with Altos

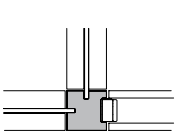


Glass Door

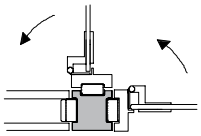


Left / Right

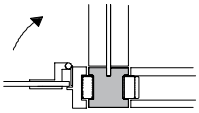
F X C A 3 A Three-Way Connection with Altos – Two Optos at 90°



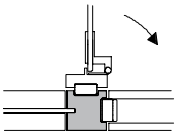
Two Glass



Two Doors

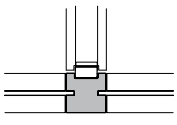


One Glass Centered, One Door In-Line

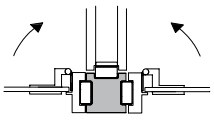


One Glass In-Line, One Door Centered

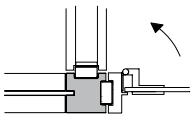
F X C A 3 B Three-Way Connection with Altos – Two Optos at 180°



Glass



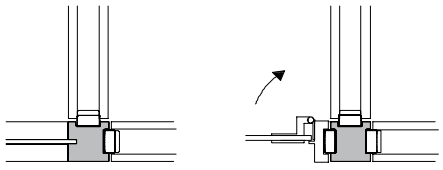
Two Doors



One Glass, One Door

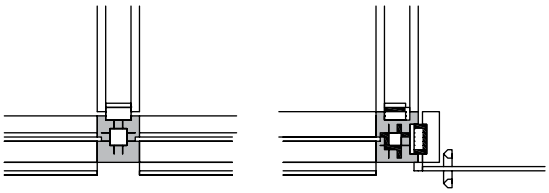
corners & connections – 12mm (continued)

F X C A 3 C Three-Way Connection with Altos – Two Altos at 90°

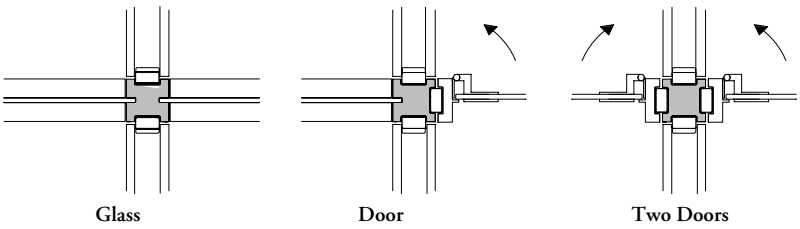


F X C A 3 D Three-Way Connection with Altos – Two Altos at 180°

F X C A 3 E Three-Way Connection with Altos for Barn Door Rails

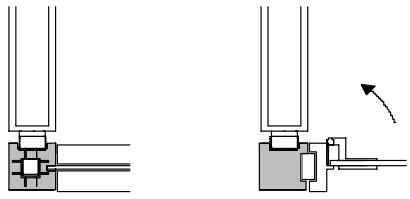


F X C A 4 B Four-Way Connection with Altos – Two Optos at 180°



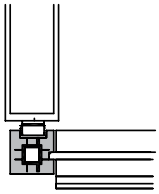
corners & connections – 12mm (continued)

F X C W 2 Two-Way Connection with Drywall

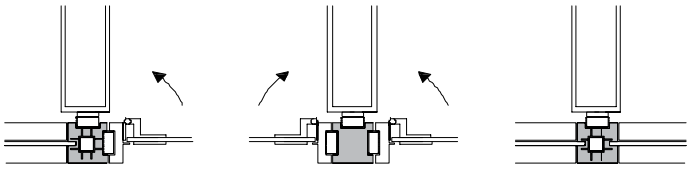


Glass Door

F X C W 2 F Two-Way Connection with Drywall for Barn Door Rail End

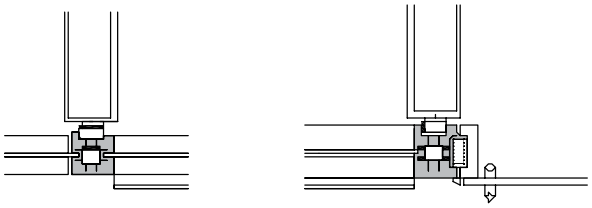


F X C W 3 Three-Way Connection with Drywall



One Door Two Doors Glass

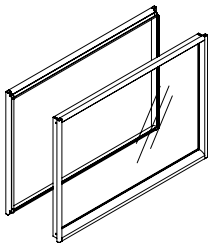
F X C W 3 E Three-Way Connection with Drywall for Barn Door Rails



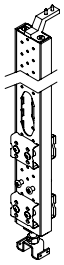
Door End, Glass Door Start, Door End

clerestory – 10mm

F Z C G M Clerestory Glass Module

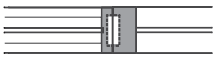


F Z C F V Clerestory Vertical Post



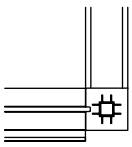
In-Line Connections

F Z C C X 1 Clerestory In-Line Connection with Optos

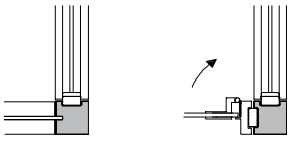


Two-Way Connections

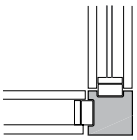
F Z C C 2 F Clerestory Two-Way Connection for Barn Door Rail End



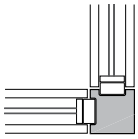
F Z C C X 2 Clerestory Two-Way 90° Corner Connection with Optos



F Z C C A 2 Clerestory Two-Way 90° Corner Connection with Altos

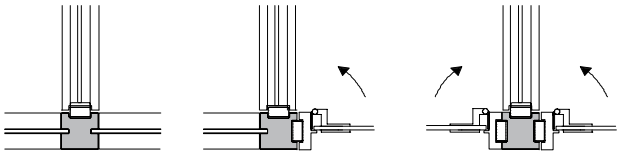


F Z C C Y 2 Clerestory Two-Way 90° Corner Connection

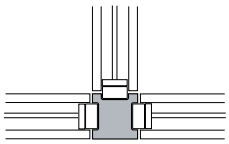


clerestory – 10mm (continued)

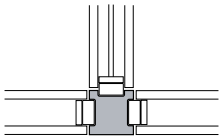
F Z C C X 3 Clerestory Three-Way Connection with Optos



F Z C C Y 3 Clerestory Three-Way Connection

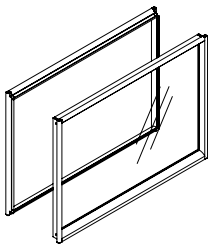


F Z C C A 3 Clerestory Three-Way Connection with Altos

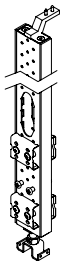


clerestory – 12mm

F X C G M Clerestory Glass Module



F X C F V Clerestory Vertical Post

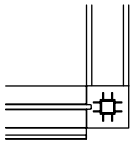


In-Line Connections

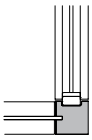
F X C C X 1 Clerestory In-Line Connection with Optos

Two-Way Connections

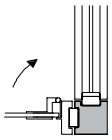
F X C C 2 F Clerestory Two-Way Connection for Barn Door Rail End



F X C C X 2 Clerestory Two-Way 90° Corner Connection with Optos

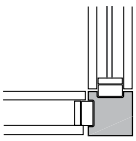


Glass

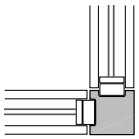


One Door

F X C C A 2 Clerestory Two-Way 90° Corner Connection with Altos

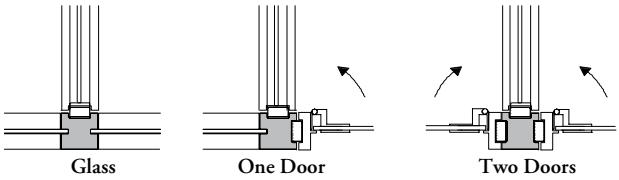


F X C C Y 2 Clerestory Two-Way 90° Corner Connection

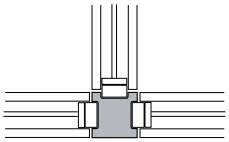


clerestory – 12mm (continued)

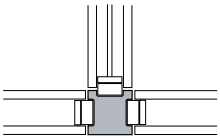
FXCCX3 Clerestory Three-Way Connection with Optos



FXCCY3 Clerestory Three-Way Connection

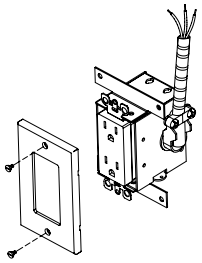


FXCCA3 Clerestory Three-Way Connection with Altos

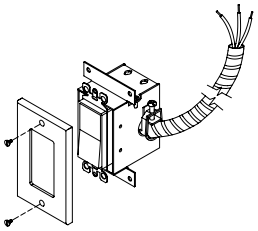


electrics

E R M Receptacle Module



E L S Light Switch



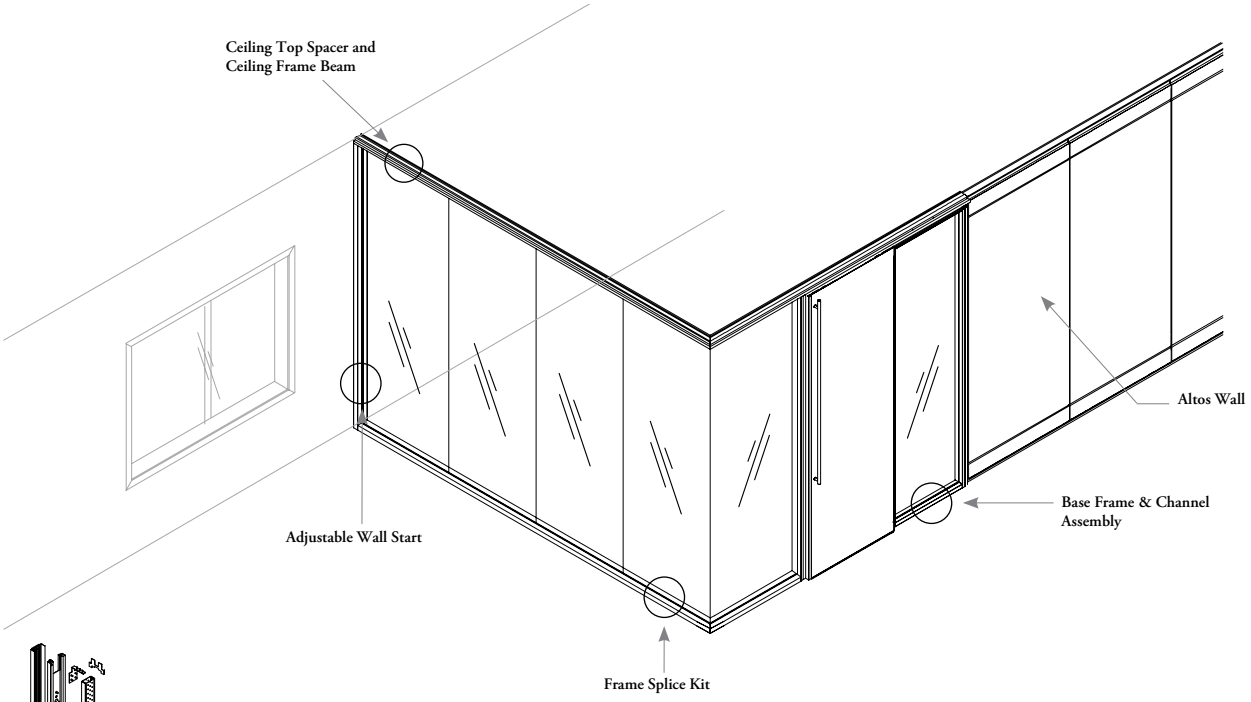
frames –
10mm & 12mm

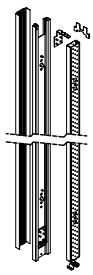
frames – 10mm & 12mm

frame basics

Optos frames consist of Ceiling Components, Base Components and Vertical Components and is available in two glass thicknesses, 10mm and 12mm for added sound attenuation.

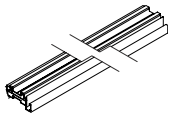
- The maximum length of horizontal frame components are 120" (to fit most freight elevators)
- The horizontal frame elements come in lengths of 36", 48", 72", 96" and 120" and are cut for a precise fit on site with minimal waste
- Vertical trims are available in heights from 86" - 120" and follow ceiling height specifications
- All 10mm component codes begin with “FZ” and all 12mm component codes begin with “FX”





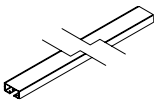
Adjustable Wall Start (FZWS/FXWS)

- Used at the beginning and end of runs connecting to a building
- Accommodate minor width variation of +/- 3/8"



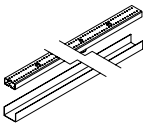
Ceiling Top Spacer (FZFP/FXFP)

Connects to the building ceiling.



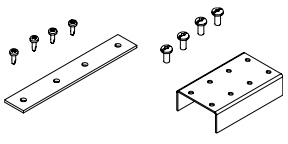
Ceiling Frame Beam (FZFC/FXFC)

Provides structure and drillings for the glass clips and Vertical Post Brackets.



Base Frame & Channel Assembly (FZFB/FXFB)

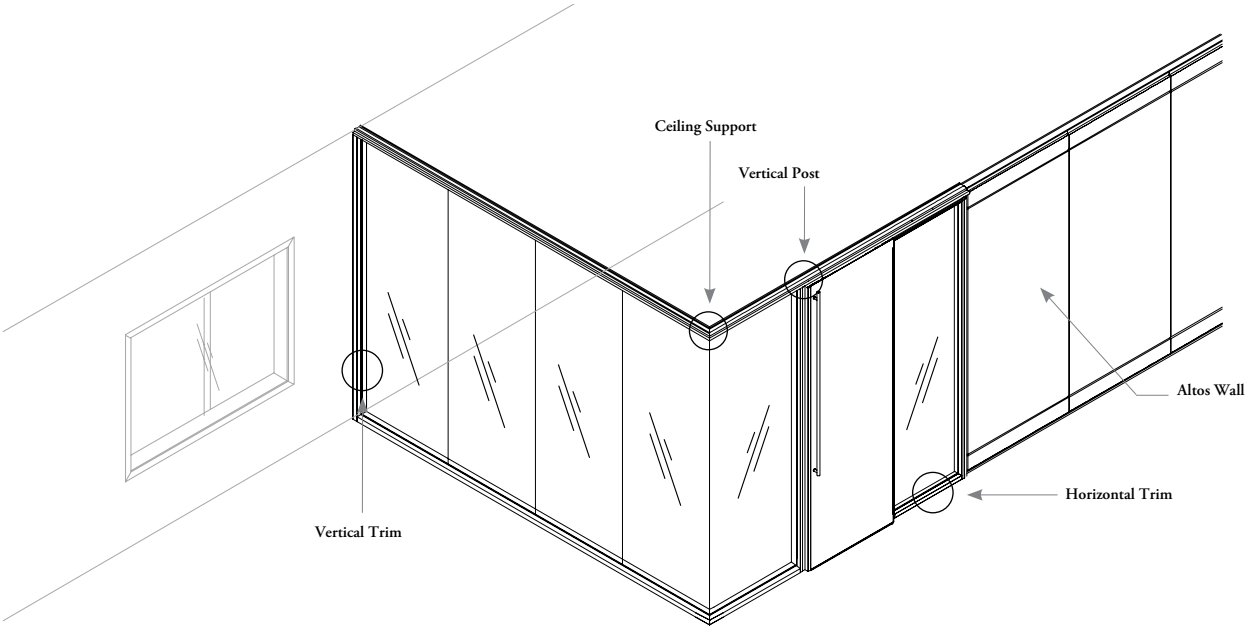
Attaches to the floor and provides the leveling capability.

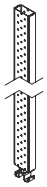


Frame Splice Kit (FZFK/FXFK)

Required to connect two Base Frame & Channel Assemblies (FZFB) or two Ceiling Top Spacers (FZFP) for 10mm and Base Frame & Channel Assemblies (FXFB) or two Ceiling Top Spacers (FXFP).

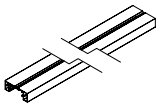
frame basics (continued)



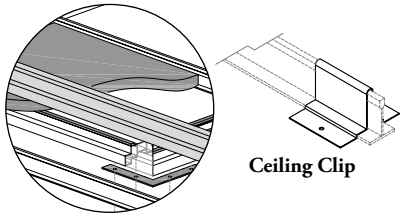


Vertical Post (FZFV/FXFV)
Used with other frame components and connections to provide vertical support.

Vertical Trim (FZFTV/FXFTV)
Provides a trim for the Vertical Post (FZFV) and Adjustable Wall Start (FZWS) for 10mm and Vertical Post (FXFV) and Adjustable Wall Start (FXWS) for 12mm.



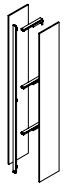
Horizontal Trim (FZFT/FXFT)
Conceals the base frame and is cut to length on site.



Ceiling Clip

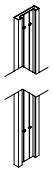
Ceiling Support (FZP/FXP)
To estimate quantities, allow for one Ceiling Clip per tile.

Also available but not shown below:



Filler Panel (FZFF/FXFF)

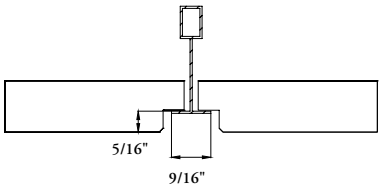
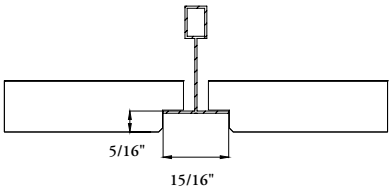
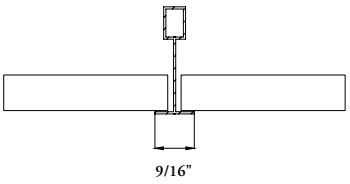
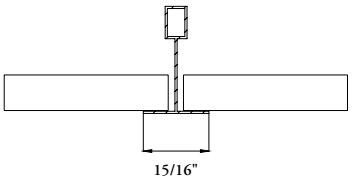
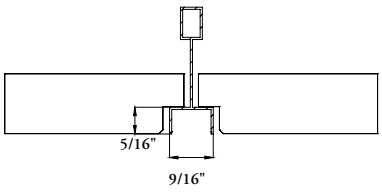
- It is used to fit around bulkheads or other architectural features intruding into the space
- Adjustable horizontal rails are provided, so that the width of the Filler Panel can be cut to custom sizes
- Maximum 6" from floor-to-ceiling can be cut away from the Filler Panel. Larger amounts can be cut away above and below the horizontal support

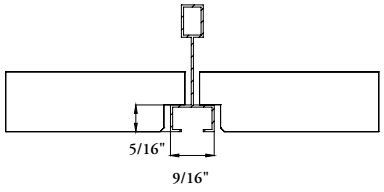
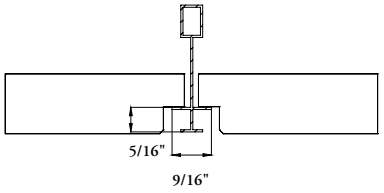
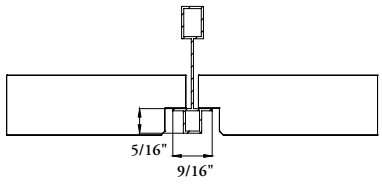
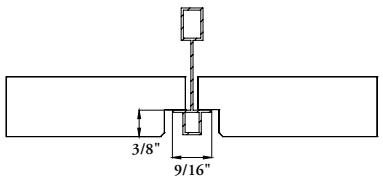
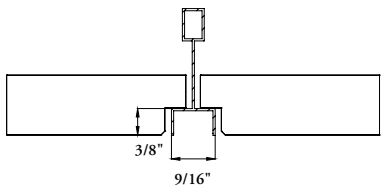


Wall End (FZFE)
A full-height trim used to finish an exposed "end of run".

planning with ceiling clips

The following should be considered when planning with Ceiling Clips.

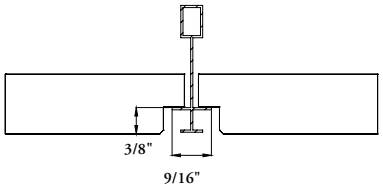
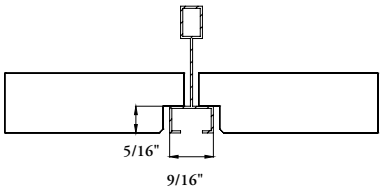
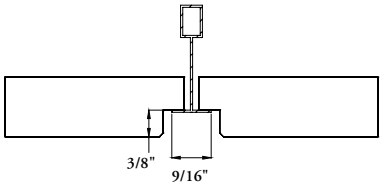
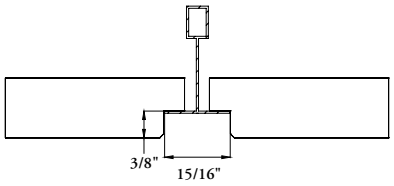
Ceiling Profile	Ceiling Clip
	**FXP6 / FZP6**
	**FXP3 / FZP3**
	**FXP2 / FZP2**
	**FXP2 / FZP2**
	**FXP6 / FZP6**

Ceiling Profile	Ceiling Clip
	**FXP6 / FZP6**
	**FXP6 / FZP6**
	**FXP6 / FZP6**
	**FXP4 / FZP4**
	**FXP4 / FZP4**

• Ceiling Clips with Reinforcement Ceiling Plank (FZP1/FXP1) is required for additional support above doors and at corners (Optos to Optos and Optos to Altos)

• Reinforcement Plank is 5' long

planning with ceiling clips (continued)

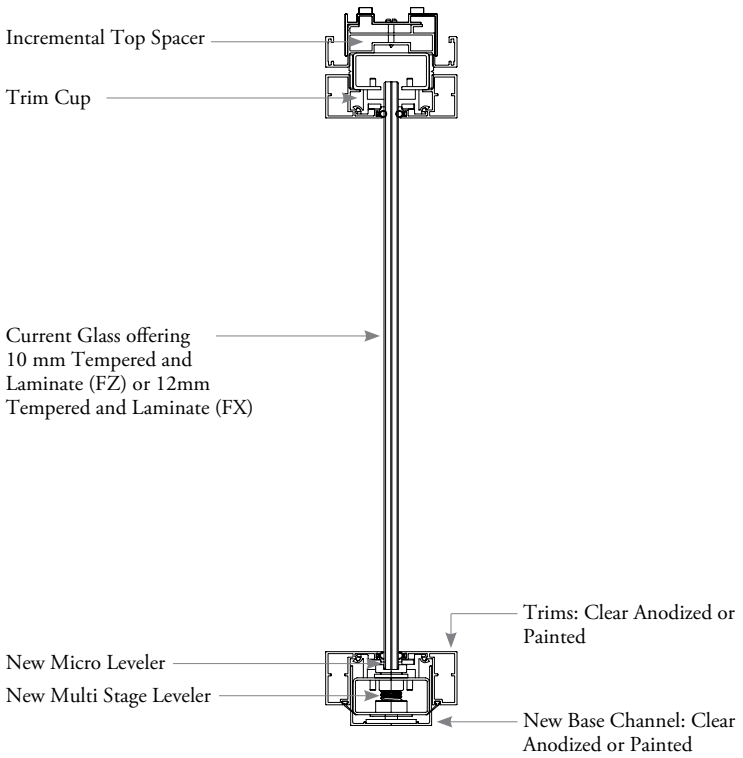
Ceiling Profile	Ceiling Clip
	**FXP4 / FZP4**
	**FXP4 / FZP4**
	**FXP5 / FZP5**
	**FXP5 / FZP5**

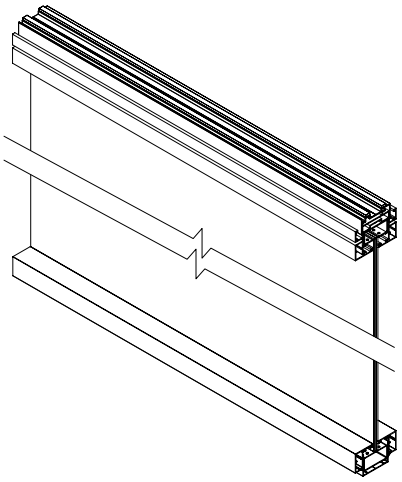
• Ceiling Clips with Reinforcement Ceiling Plank (FZP1/FXP1) is required for additional support above doors and at corners (Optos to Optos and Optos to Altos)

• Reinforcement Plank is 5' long

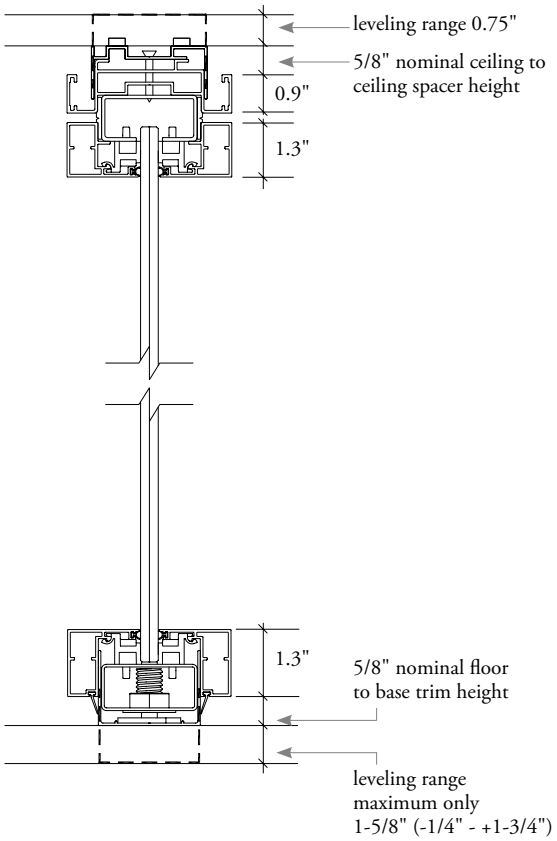
planning with frames

The following outlines the features of Optos Frames.





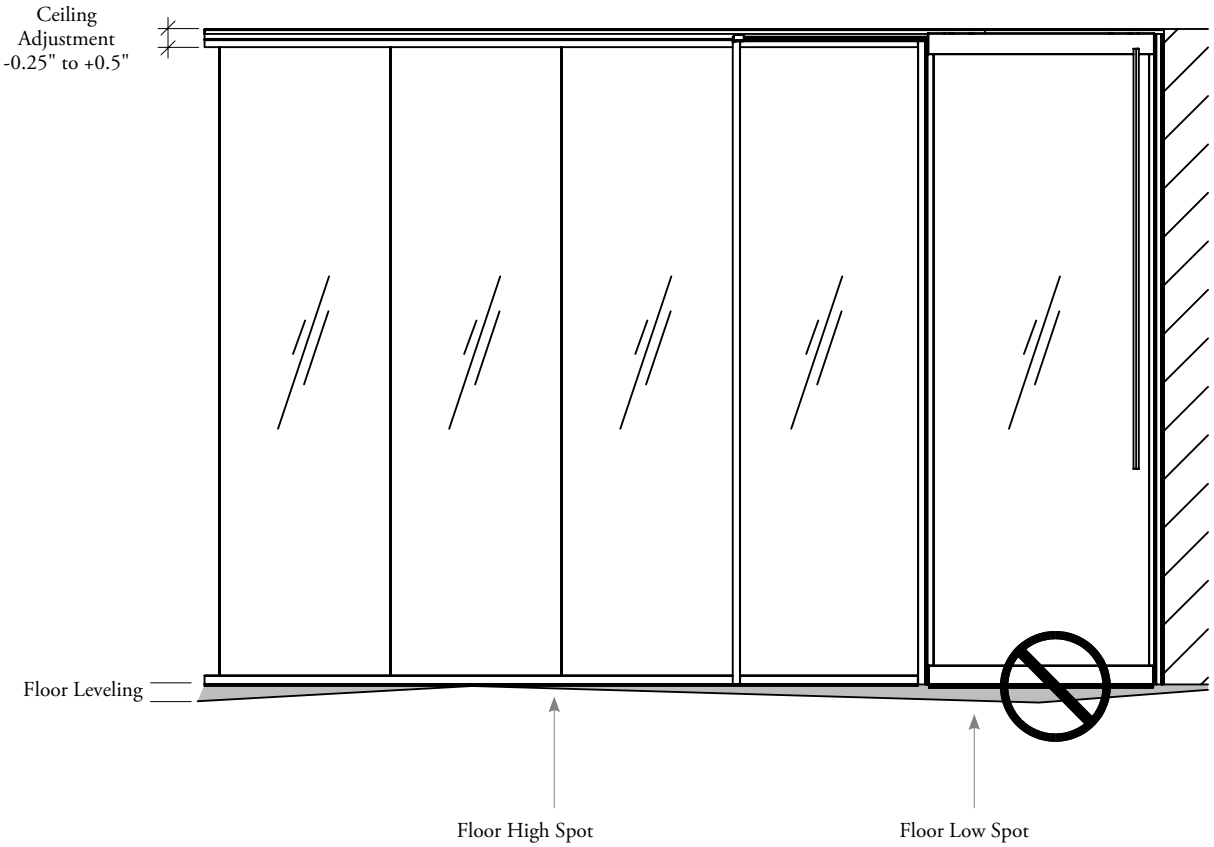
Section of Optos Profile at top and bottom



planning with frames (continued)

The following outlines the features of Optos Frames.

- Careful attention should be given to floor levels. Optos is complete with ceiling and floor leveling systems
- Whenever possible Doors should be planned near floor high spots to reduce gaps underneath

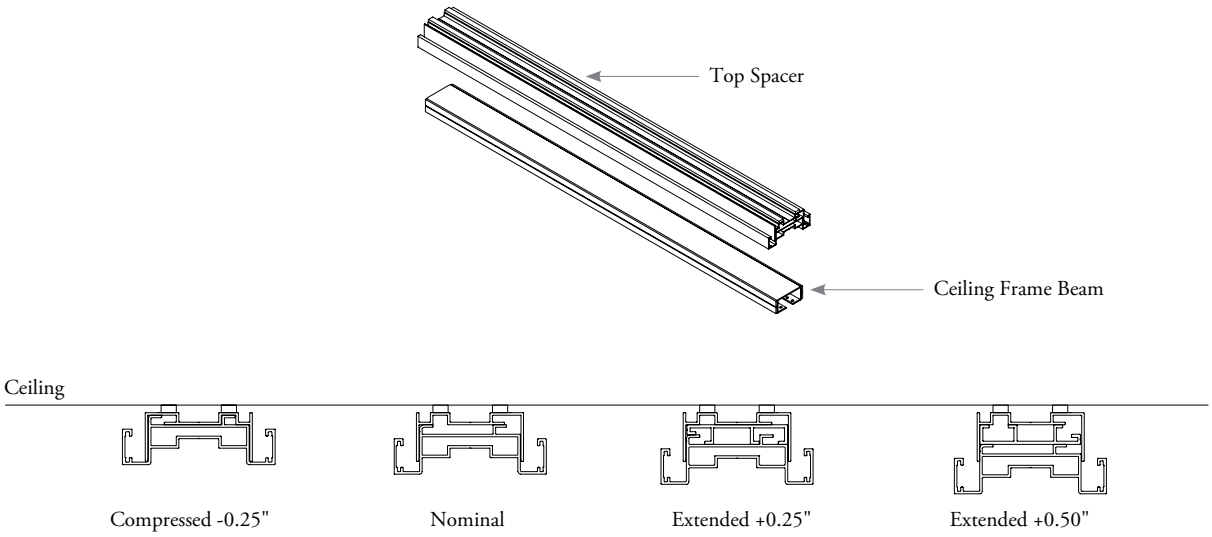


planning with frames (continued)

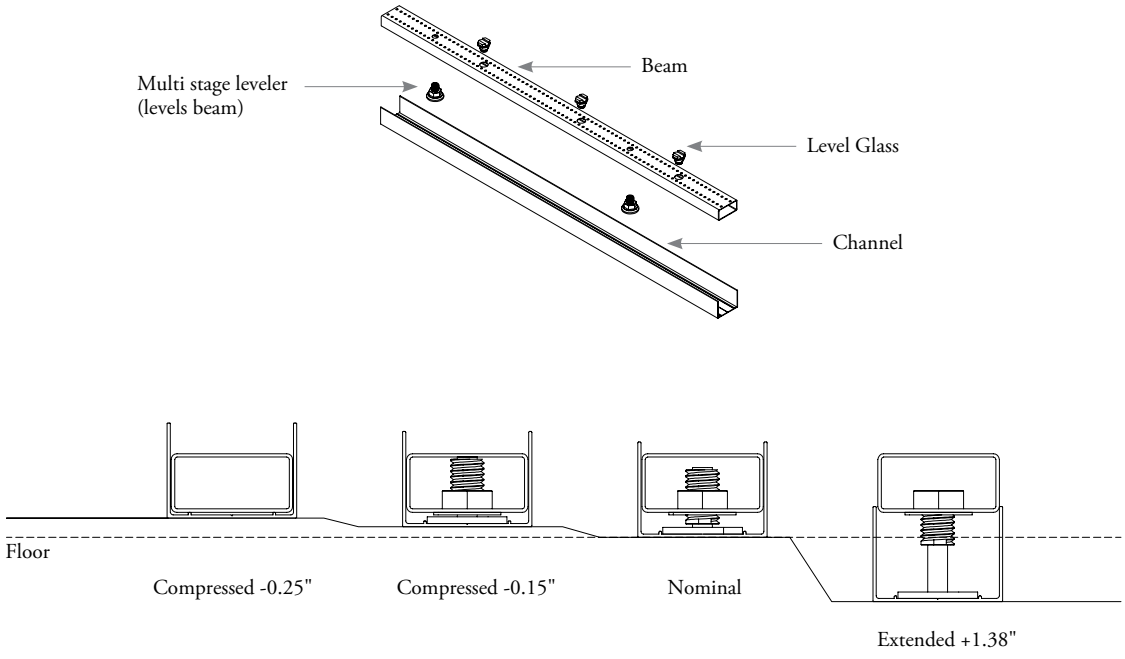
The following outlines the features of Optos Frames.

- Ceiling Top Spacer is adjustable
- If product is specified smaller or larger than minimum floor to ceiling height, Top Spacer may be adjusted to reduce gapping at base of product

ceiling leveling system

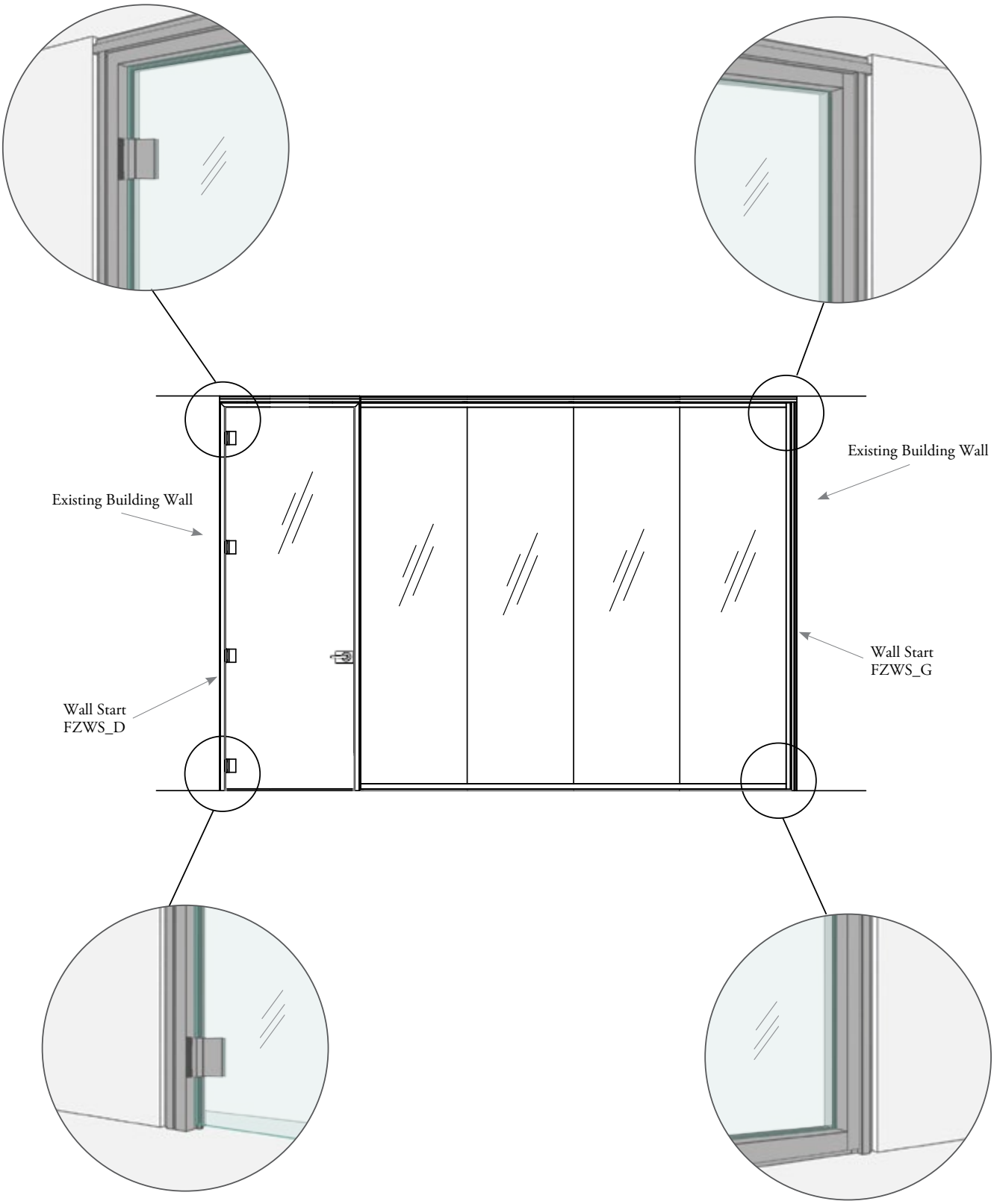


base leveling system



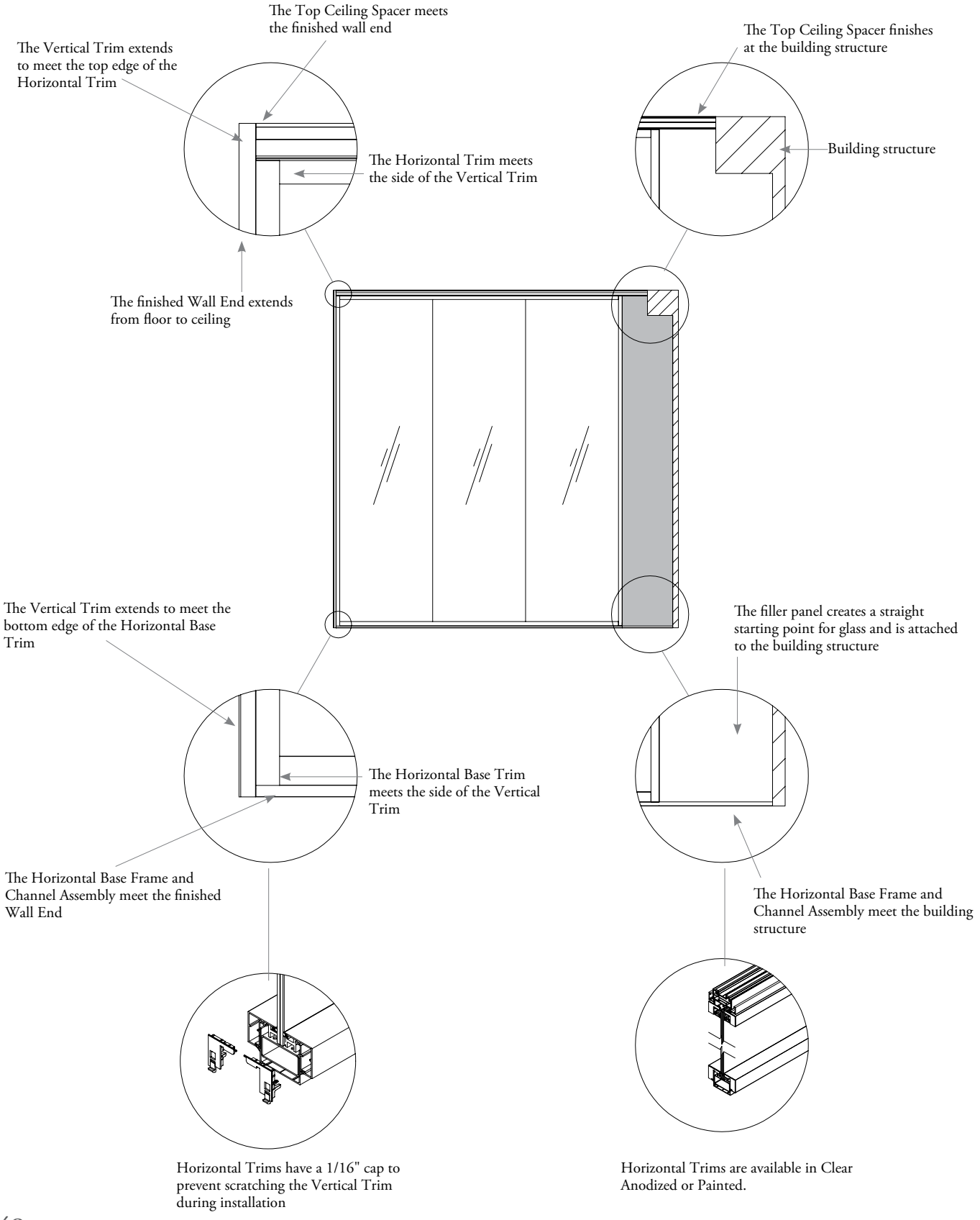
planning with wall starts

The following outlines the features of Optos Wall Starts.



planning with trims

The following trim details are typical of Optos transitions.

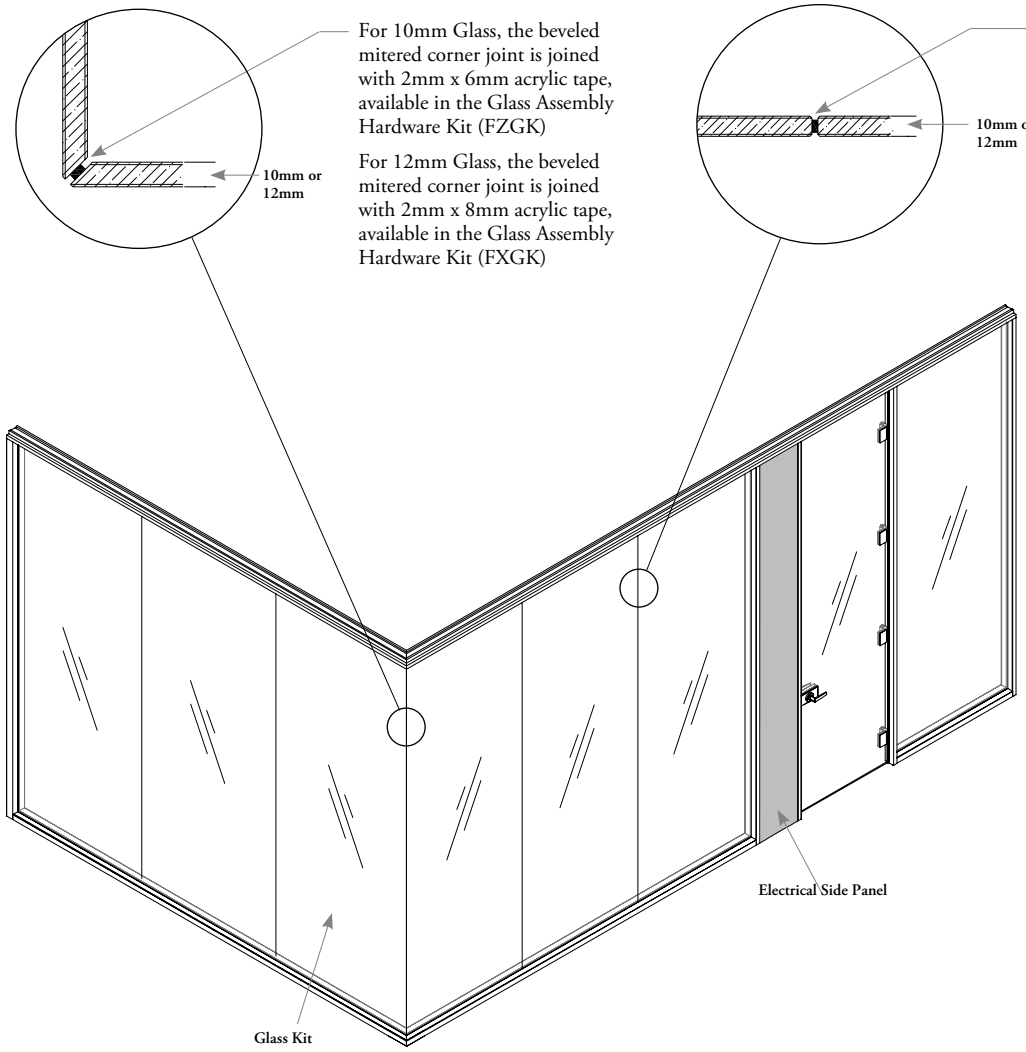


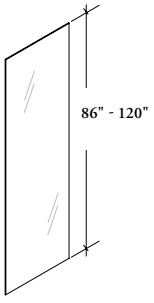
fascias –
10mm & 12mm

fascias – 10mm & 12mm

fascia basics

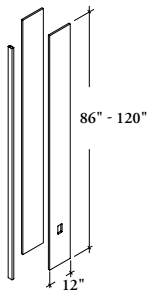
Two Fascia types are available: the Glass Kit and the Electrical Side Panel.





Glass Kit (FZGP/FXGP)

- Glass sections are aligned to create continuous glass spans
- Two types are available: Tempered and Laminated
- Vanceva Specialty Glass is available in 10mm Laminated Glass only
- Available edge types are: one mitered edge and one flat edge for 90˚ connections and two flat edges for inline connections
- 10mm available in 1/8" width increments from 14" - 36"
- 12mm available in 1/8" increments from 14" to 48"
- Textured Glass is not available

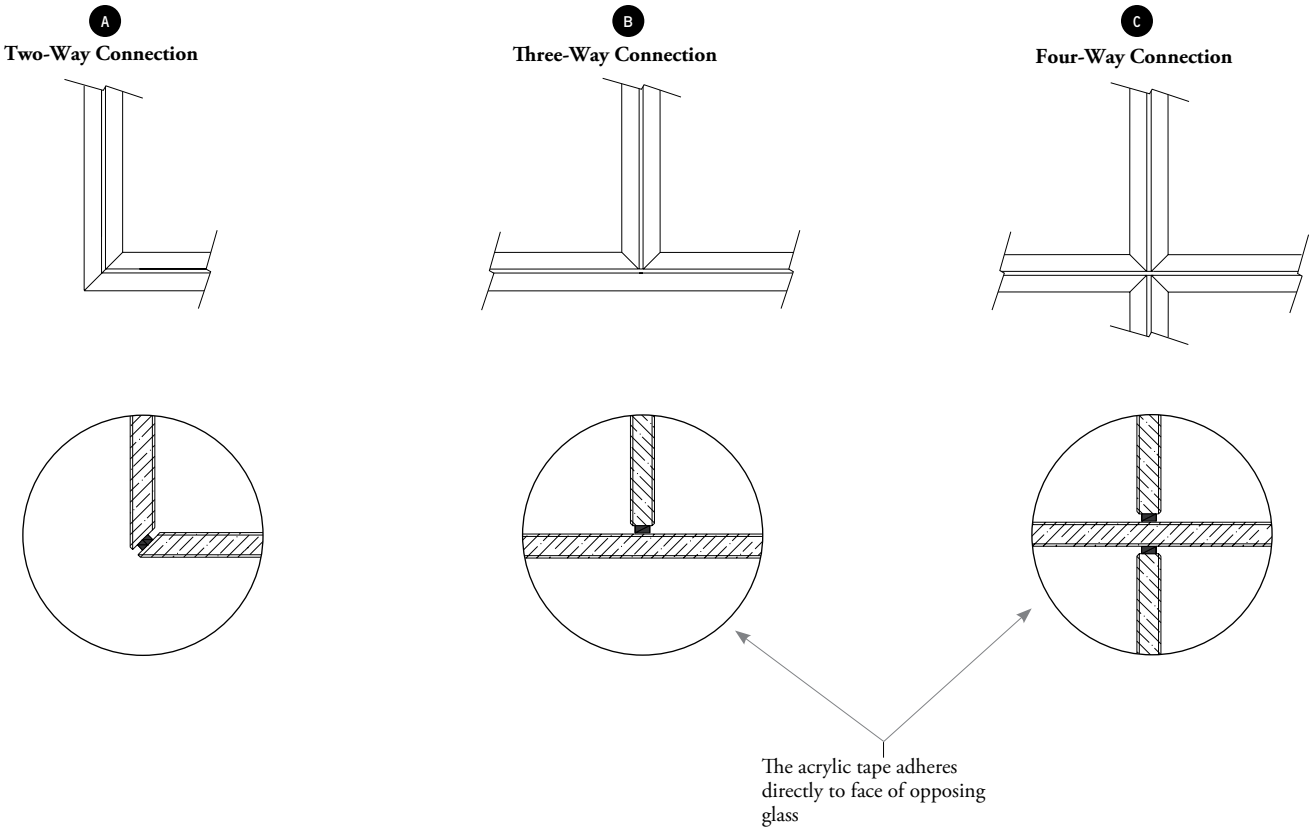


Electrical Side Panel (FZS/FXS)

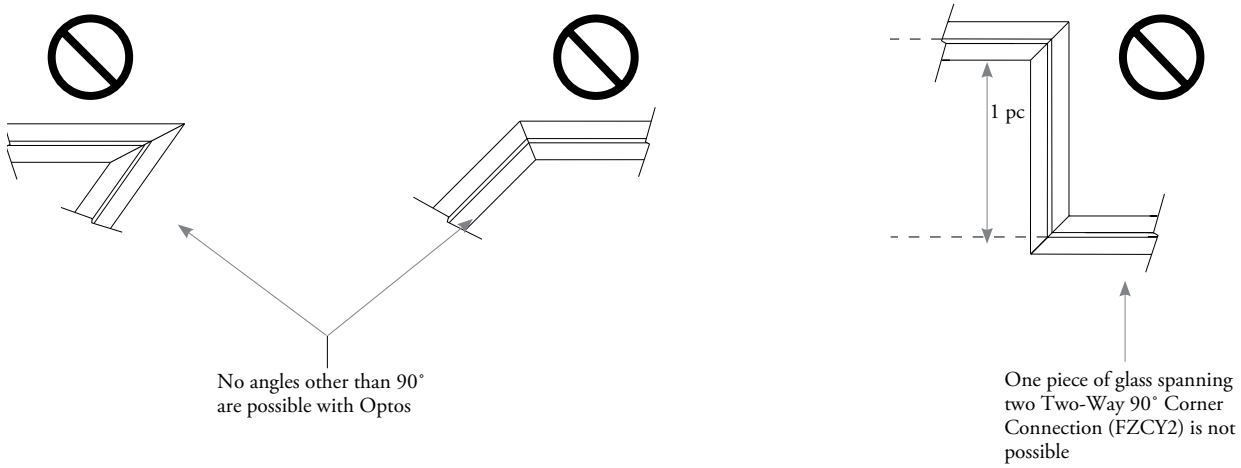
- Two solid fascias used to house light switches or receptacle modules
- Available in two styles:
  1. Solid to be used for the light switch. The light switch location will be cut on site
  2. One vertical cut out at 18" high to be used for receptacles
- Available in Fascia Laminates or Flintwood

planning with glass modules

The following details should be taken into consideration when planning with Optos glass sections



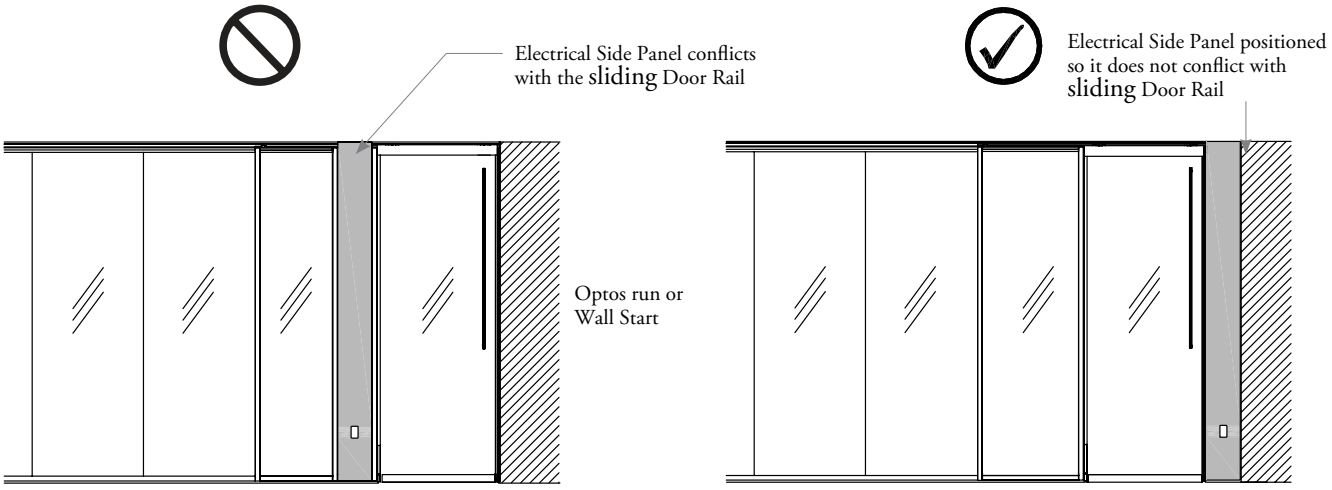
The following types of corners are not possible:



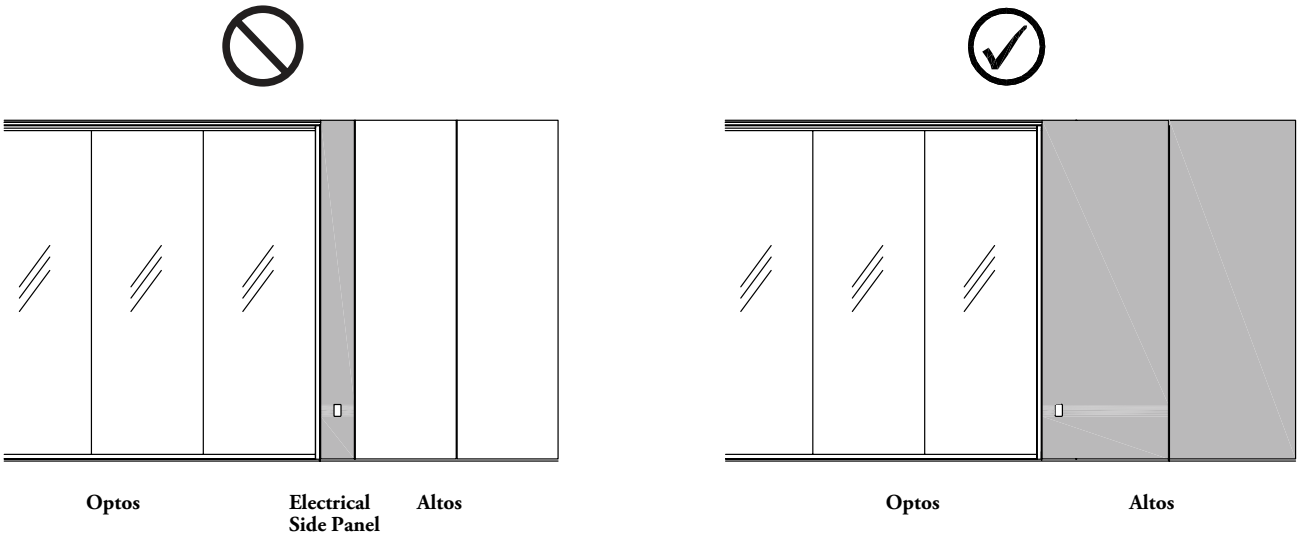
planning with electrical side panel

The following two conditions should be considered when incorporating the Electrical Side Panel.

- Electrical Side Panels (FZS/FXS) are used near door openings to house electrical switches and receptacles
- Due to interference, the Electrical Side Panel must be used under a Ceiling Frame Beam and not under spans of Optos where a sliding Door Rail has been used. The panel should therefore be planned on the side adjacent to a sliding Door where the rail is not used



It is advisable to avoid the use of an Electrical Side Panel (FZS/FXS) at an in-line Optos to Altos transition. Instead use Altos which has cable routing capabilities.



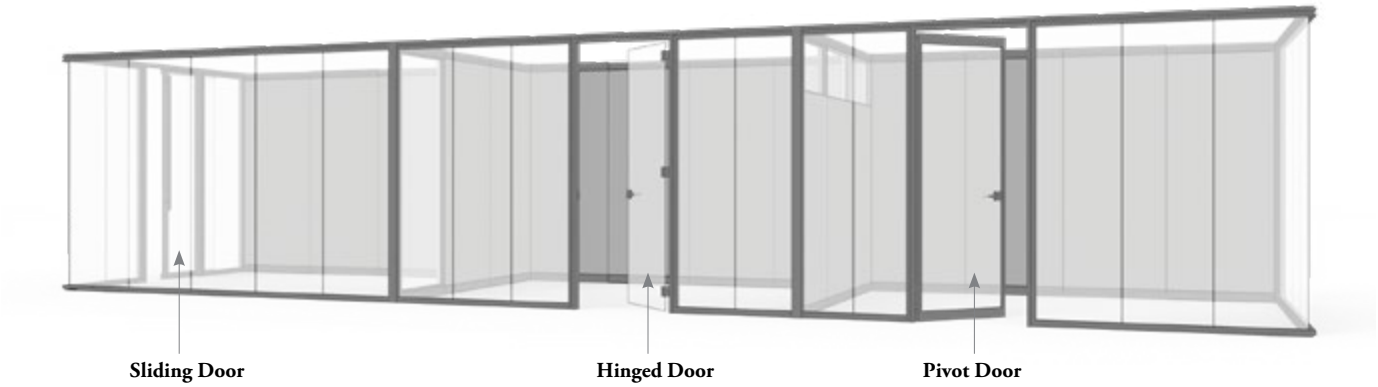
doors –
10mm & 12mm

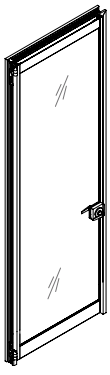
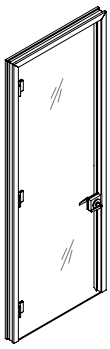
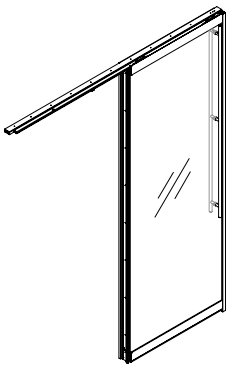
doors – 10mm & 12mm

door overview

Optos offers a variety of doors that meet a range of privacy and functional needs – the three basic types are: Hinged, Pivot and Sliding

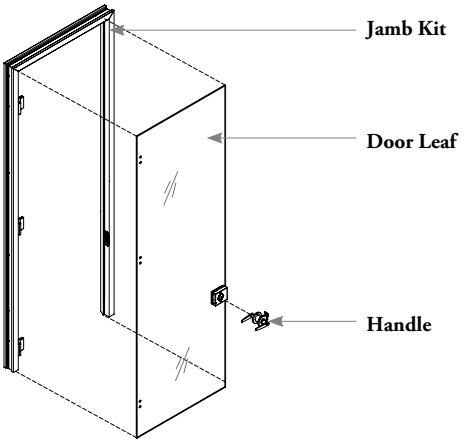
- Some doors are available in glass, solid, and solid with glass insert options. Both as Single leaf or double leaf doors
- Door leaves, Jambs and Rail Kits are necessary to complete a full door package
- Consideration for ADA compliant locking hardware for doors needs to be determined early in the project cycle. Teknion offers a custom special solution that complies with ADA requirements, subject to local approvals
- Check local regulatory codes for minimum clear height allowed for door openings
- Check local code requirements, as in some jurisdictions the use of Sliding Doors limits room occupancy to a maximum of 10 people
- Locking or non-locking is available



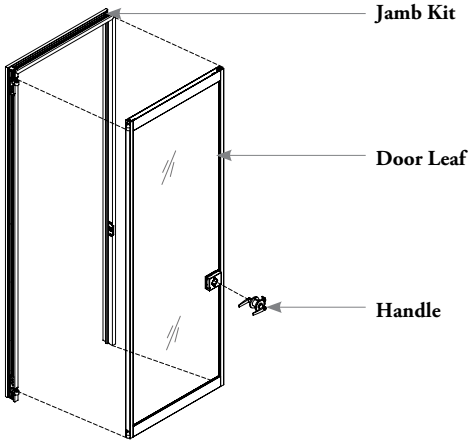
Swing Doors		Sliding Doors
Hinged Doors	Pivot Doors	
		

building up a complete door module

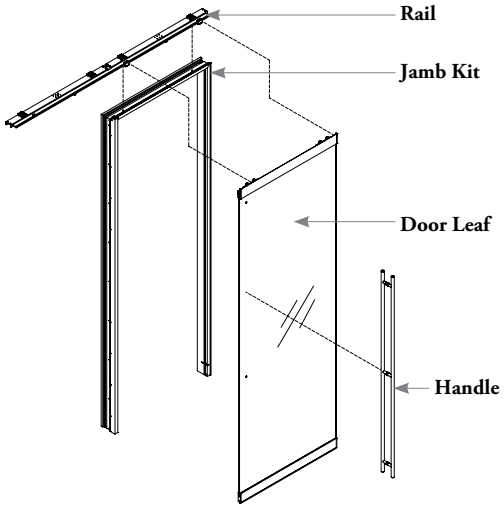
- Door leaves, Jamb Kits, Rails (for Sliding doors only) and Handles need to be specified to create a complete door module
- Fascias and clerestory adjacent or above doors need to be specified separately



Complete Hinged Door Package = Door Leaf + Jamb Kit + Handle



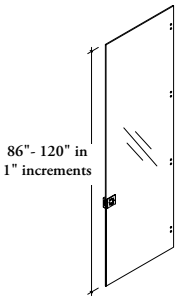
Complete Pivot Door Package = Door Leaf + Jamb Kit + Handle



Complete Sliding Door Package = Door Leaf + Jamb Kit + Rail Kit + Handle

swing door basics

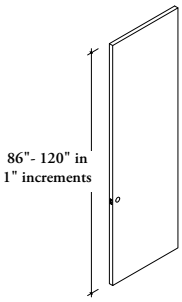
Four swing door styles are available for Optos applications.



Glass Hinged Door Leaf Single (FZSGHL)

- A full-height hinged glass door that swings open
- 10mm thick (3/8" nominal thickness) glass leaf
- Available in 40" and 42" nominal widths
- Optional 10" high stainless steel kickplate (ADA)
- Glass Type: Tempered or Tempered-Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Frame Component Finishes: Clear Anodized or Painted
- Includes Door Stop
- Hinges open up to 180° (actual 176° with door stop).

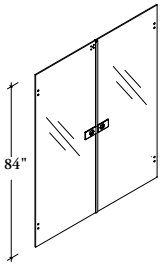
Door nominal width	Maximum width Opening	Opening Clear Width with Door opened 90°
40" Wide	36-1/4"	35"
42" Wide	38-1/4"	37"



Solid Hinged Door Leaf Single (FZSSHL)

- A full-height hinged solid door that swings open
- 1-3/4" thick solid leaf
- Available in 40" and 42" nominal widths
- Optional Bottom Seal
- Solid Finishes: Unfinished, Laminate or Flintwood
- Component Finishes: Clear Anodized or Painted
- Includes Door Stop
- Hinges open up to 180° (actual 176° with door stop)

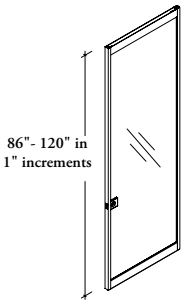
Door nominal width	Maximum width Opening	Opening Clear Width with Door opened 90°
40" Wide	36-1/4"	35"
42" Wide	38-1/4"	37"



Glass Hinged Door Leaf Double (FZDGHL)

- Two full-height hinged glass doors that swing open
- 10mm thick (3/8" nominal thickness) glass double leaf
- Available in 72" and 80" nominal widths
- Optional 10" high stainless steel kickplate (ADA)
- Glass Type: Tempered or Tempered-Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Frame Component Finishes: Clear Anodized or Painted
- Includes two Door Stops
- Hinges open up 180°

Door nominal width	Maximum width Opening	Active Door Opened 90°
72" Wide	67"	32"
80" Wide	75"	36"



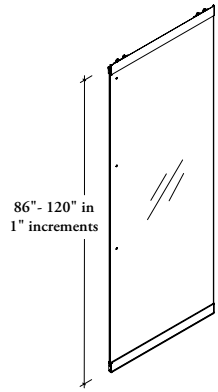
Glass Pivot Door Leaf Single (FZSGPL)

- A full-height door that pivots open 180˚
- 10mm thick (3/8" nominal thickness) and 12mm thick glass leaf
- Available in 40" and 42" nominal widths
- Optional 10" high stainless steel kickplate (ADA)
- Optional adjustable door closer/door stay.
- Glass Type: Tempered or Tempered-Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Frame Component Finishes: Clear Anodized or Painted

Door nominal width	Maximum width Opening	Opening Clear Width with Door opened 90°
40" Wide	36-1/4"	36"
42" Wide	38-1/4"	38"

sliding door basics

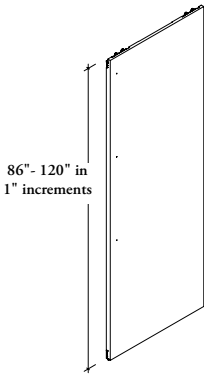
Four sliding door styles are available for Optos applications



Glass Sliding Door Leaf Single (FZSGSL)

- A full-height glass door that slides open
- 10mm thick (3/8" nominal thickness) glass leaf
- Available in 40" 42" and 44" nominal widths
- Door Application: Interior and Exterior
- Door Slide: Left or Right
- Glass Type: Tempered or Tempered-Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Header and Base Cover Finish: Clear Anodized or Painted
- Soft Close / Open Mechanism Standard

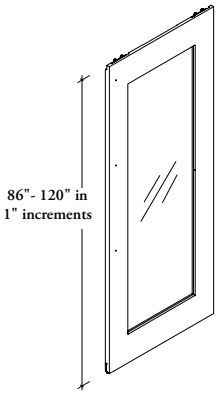
Door Nominal Width	Door Clear Width Opening
40	32-1/16"
42	34-1/16"
44	36-1/16"



Solid Sliding Door Leaf Single (FZSSSL)

- A full-height solid door that slides open
- 1-3/4" thick solid leaf
- Available in 40", 42" and 44" nominal widths
- Door Application: Interior and Exterior
- Door Slide: Left or Right
- Solid Finishes: Laminate or Flintwood
- Header and Base Cover Finish: Clear Anodized or Painted
- Soft Close / Open Mechanism Standard

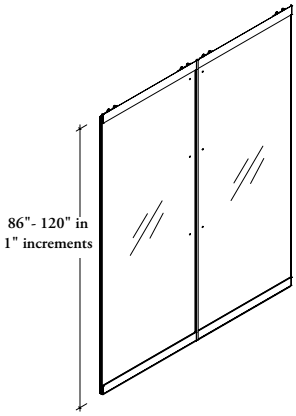
Door Nominal Width	Door Clear Width Opening
40	32-1/16"
42	34-1/16"
44	36-1/16"



Solid Sliding Door Leaf with Glass Insert Single (FZSNSL)

- 1-3/4" thick solid leaf with 6mm thick glass insert
- Available in 40", 42" and 44" nominal widths
- Door Application: Interior and Exterior
- Door Slide: Left or Right
- Solid Finishes: Laminate or Flintwood
- Glass Type: Tempered or Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Header and Base Cover Finish: Clear Anodized or Painted
- Soft Close / Open Mechanism Standard

Door Nominal Width	Door Clear Width Opening
40	32-1/16"
42	34-1/16"
44	36-1/16"



Glass Sliding Door Leaf Double (FZDGSL)

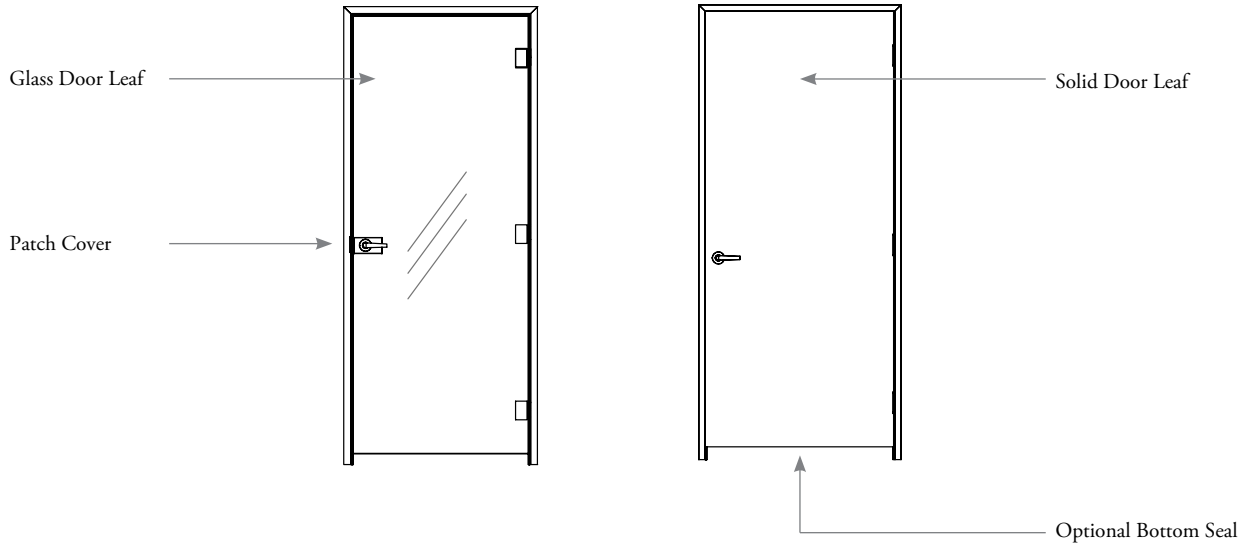
- Two full-height glass doors that slide open
- 10mm thick (3/8" nominal thickness) glass double leaf
- Available in 70", 72", 78" and 80" nominal widths
- Door Application: Interior and Exterior
- Glass Type: Tempered or Tempered-Laminated
- Glass Finish: Clear, Frosted, or Low Iron
- Header and Base Cover Finish: Clear Anodized or Painted
- Soft Close / Open Mechanism Standard

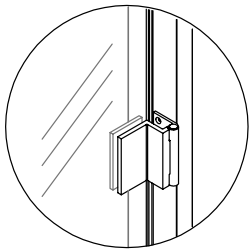
Door Nominal Width	Both Doors Clear Width Opening	Active Door Clear Width Opening
70	56-1/2"	28-1/8"
72	58-1/2"	29-1/8"
78	64-1/2"	32-1/8"
80	66-1/2"	33-1/8"

hinged door details

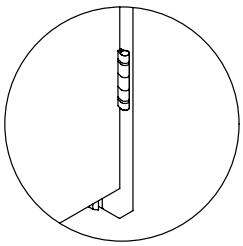
The following outlines the features of hinged doors.

single hinged door

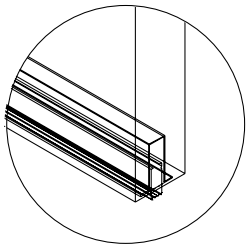




Glass Door Hinge



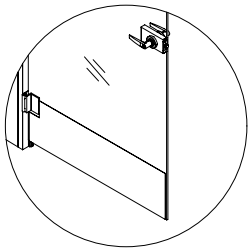
Solid Door Hinge



Bottom Seal (Solid door only)

A Bottom seal is an option to minimize sound leakage at the bottom of the solid doors (up to 0.5" gap under door).

- Optional (Solid door only)



Stainless Steel Kickplate (Glass door only)

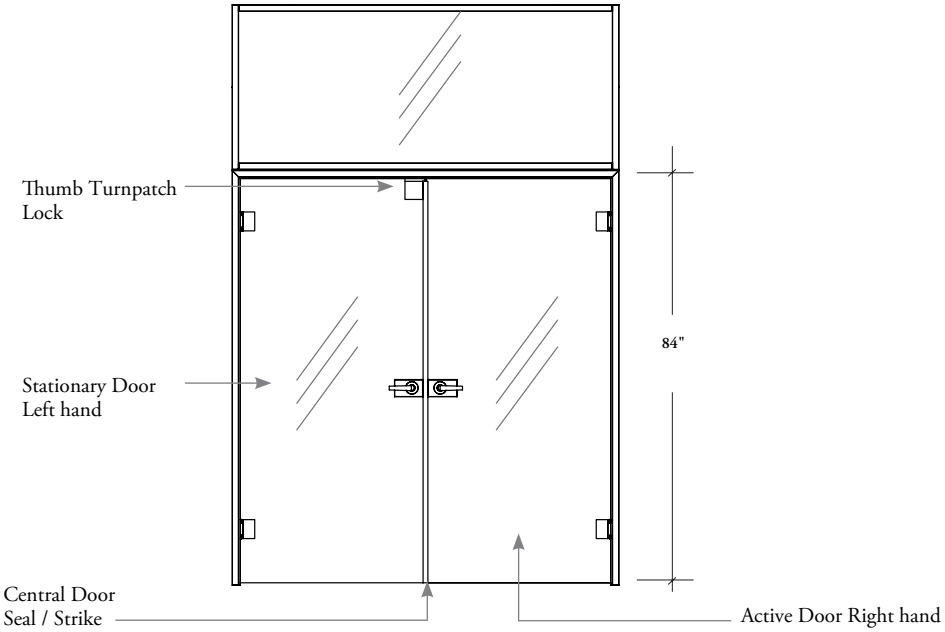
- Optional
- 10" high stainless steel (ADA)

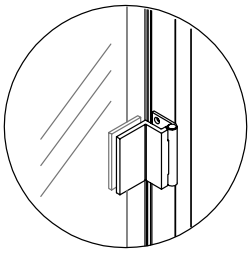
hinged door details (continued)

The following outlines the features of hinged doors.

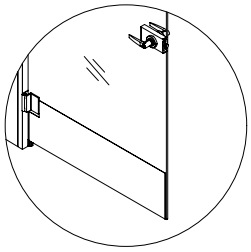
double hinged door

The double hinged door has a patch lock assembly at the top of the left door.





Glass Door Hinge



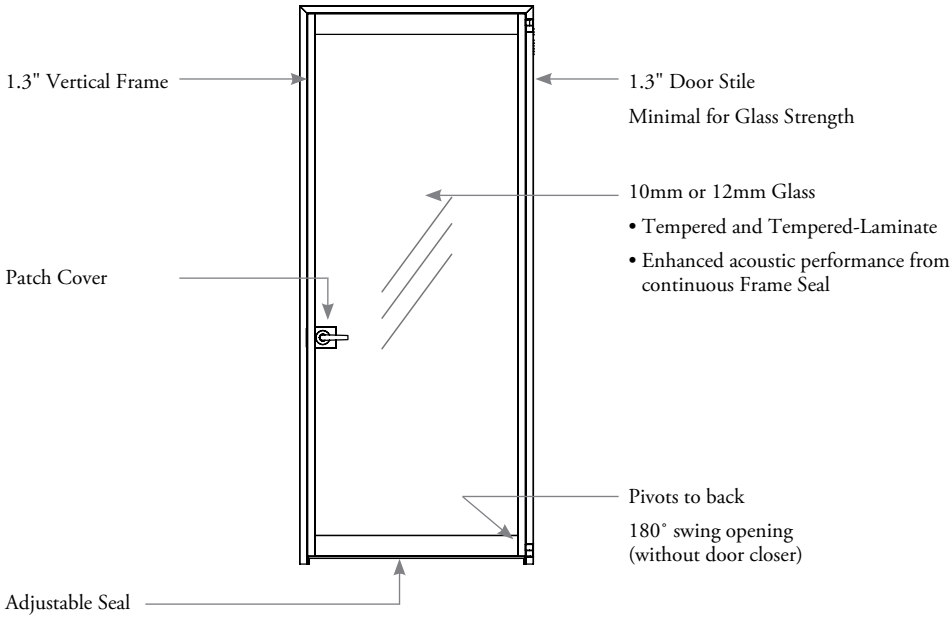
Stainless Steel Kickplate

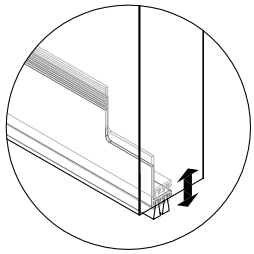
- Optional
- 10" high stainless steel (ADA)

pivot door details

The following outlines the features of pivot doors.

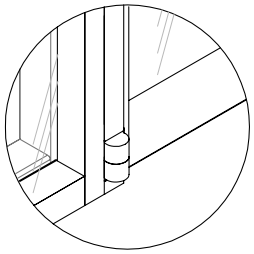
single pivot door





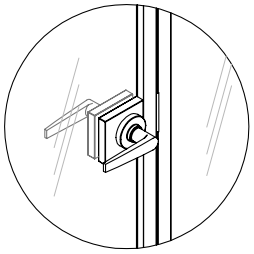
Adjustable Bottom Seal

- Range accommodates base leveling -1/4" - +1-3/8"
- Continuous across width of door



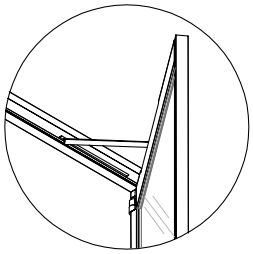
Pivot Hinge (interior view)

- Door pivots hung from vertical
- Door levels with vertically with system
- Two pivots only up to maximum 10'
- Anodized or Painted Aluminum finish



Lock Patch Plate

- Anodized Aluminum or Painted finish
- Type S and Type J handles available lever option
- No exposed fasteners



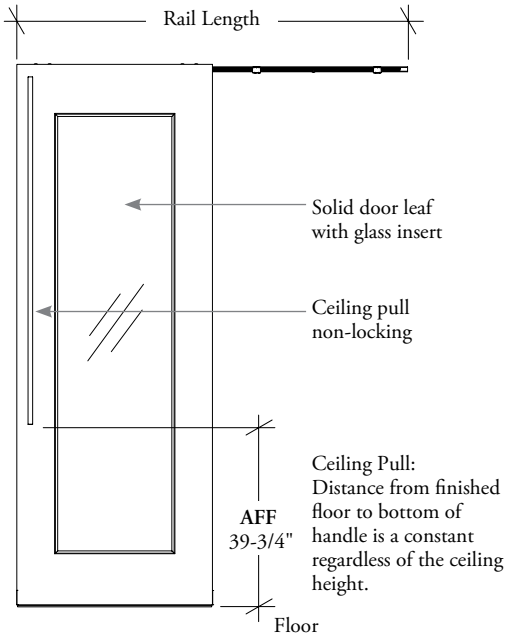
Optional adjustable door closer / door stay

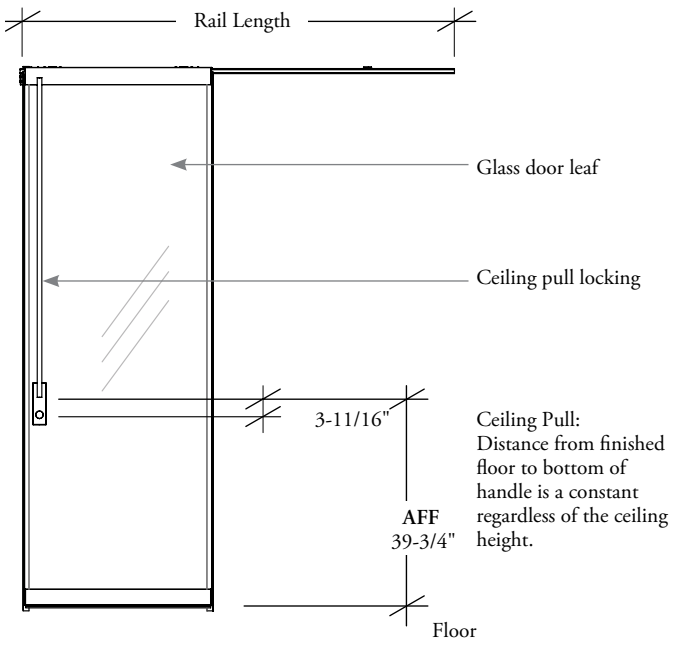
- Dorma concealed closer
- Adjustable closing speed
- Closer Arm and track finished in Clear Anodized or Black
- Hold Open feature is included with the Closer Mechanism
- Maximum 100˚ opening range

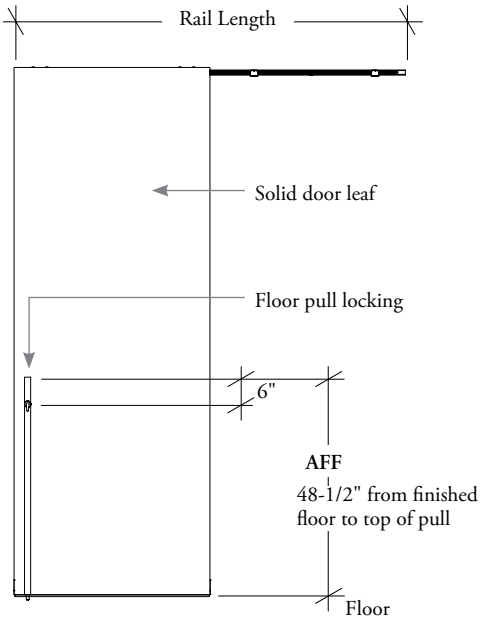
sliding door details

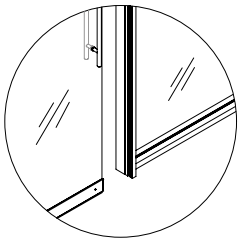
The following outlines the features of sliding doors.

single sliding door



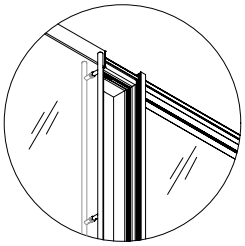






Door Receiver

- Stopper with gasket
- Captures the door when closed providing a good acoustic seal



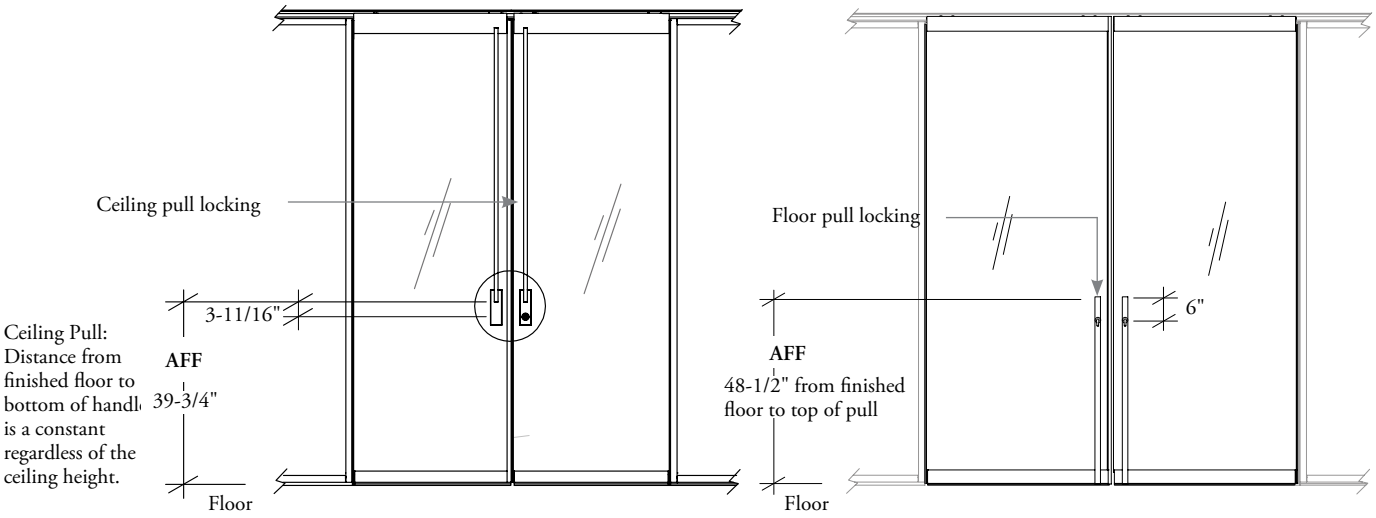
Soft Open/Close

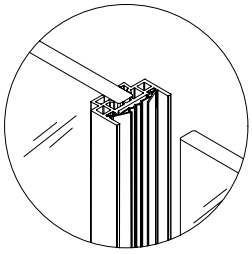
- Included in all sliding doors as standard
- Integrated on door header

sliding door details (continued)

The following outlines the features of sliding doors.

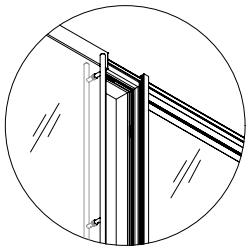
double sliding door





Door Receiver

- Stopper with gasket
- Captures the door when closed providing a good acoustic seal and protection from glass edge

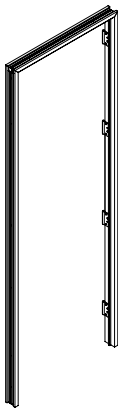


Soft Open/Close

- Included in all sliding doors as standard
- Integrated on door header

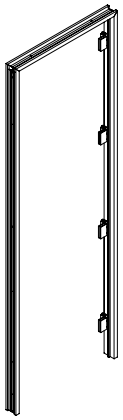
jamb basics

Jambs are independent frames that cover the vertical and horizontal structural elements in a door assembly.



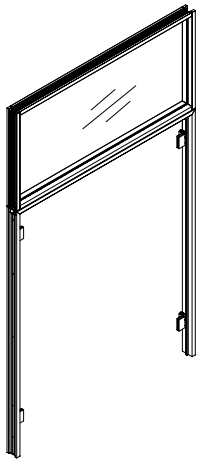
Solid Hinged Door Jamb Kit Single (FZSSHF)

- Jamb for the Solid Hinged Door Leaf Single (FZSSHL)
- Jamb Kit consists of jamb frame, connection hardware (including hinges), adjustable strike plate, 1 door stop
- Available in 40" and 42" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Frame Component Finishes: Clear Anodized or Painted



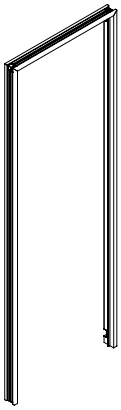
Glass Hinged Door Jamb Kit Single (FZSGHF)

- Jamb for the Glass Hinged Door Leaf Single (FZSGHL)
- Jamb Kit consists of jamb frame, connection hardware (including hinges), adjustable strike plate, 1 door stop
- Available in 40" and 42" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Frame Component Finishes: Clear Anodized or Painted



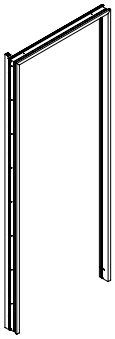
Glass Hinged Door Jamb Kit Double (FZDGHF)

- Jamb for the Glass Hinged Door Leaf Double (FZDGHL)
- Jamb Kit consists of jamb frame, Vertical and Horizontal frame for the Clerestory, connection hardware (including hinges), flush bolt, adjustable strike plate, patch lock, 2 door stops, 1 closer (if specified)
- Available in 72" and 80" nominal widths
- Available in 94" to 120" nominal heights in 1" increments
- Frame Component Finishes: Clear Anodized or Painted



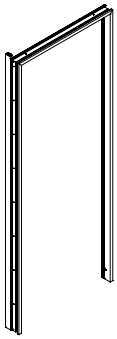
Glass Pivot Door Jamb Kit Single (FZSGPF)

- Jamb for the Glass Pivot Door Leaf Single (FZSGPL)
- Jamb Kit consists of jamb frame, connection hardware, adjustable strike plate, 1 door stop, 1 closer (if specified)
- Available in 40" and 42" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Frame Component Finishes: Clear Anodized or Painted



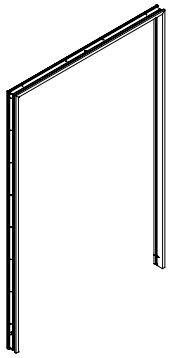
Glass Sliding Door Jamb Kit Single (FZSGSJ)

- Jamb for the Glass Sliding Door Leaf Single (FZSGSL)
- Jamb Kit consists of jamb frame
- Available in 40", 42" and 44" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Door Application: Interior and Exterior
- Door Slide: Left or Right
- Header and Base Cover Finish: Clear Anodized or Painted



Solid Sliding Door Jamb Kit Single (FZSSSJ)

- Jamb for the Solid Sliding Door Leaf Single (FZSSSL) and the Solid Sliding Door Leaf with Glass Insert Single (FZSNSL)
- Jamb Kit consists of jamb frame
- Available in 40", 42" and 44" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Door Application: Interior and Exterior
- Door Slide: Left or Right
- Header and Base Cover Finish: Clear Anodized or Painted

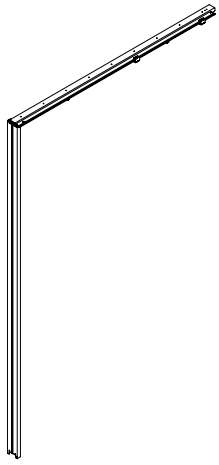


Glass Sliding Door Jamb Kit Double (FZDGSJ)

- Jamb for the Glass Sliding Door Leaf Double (FZDGSL)
- Jamb Kit consists of jamb frame
- Available in 70", 72", 78" and 80" nominal widths
- Available in 86" to 120" nominal heights in 1" increments
- Door Application: Interior and Exterior
- Header and Base Cover Finish: Clear Anodized or Painted

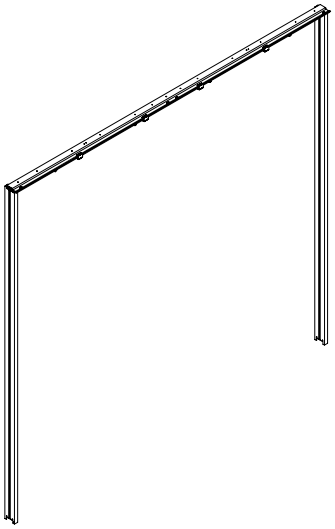
rail basics

Rails are independent frames that are necessary for sliding doors to open and close.



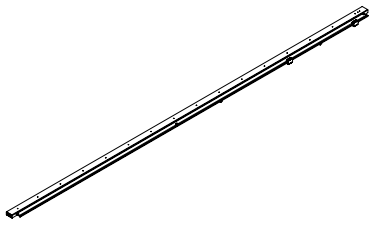
Sliding Door Fixed Rail Single (FZSFSR)

- Rail for all the sliding door leaves single: Glass (FZSGSL), Solid (FZSSSL), and Solid with Glass Insert (FZSNSL)
- Provides a vertical mullion visual on the glass fascia adjacent to the sliding door
- Includes one vertical aluminum post to be used at a fixed distance from the door



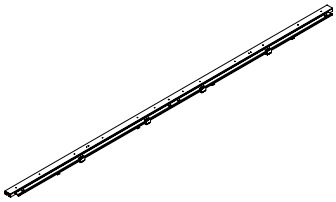
Sliding Door Fixed Rail Double (FZDFSR)

- Rail for the Glass Sliding Door Leaf Double (FZDGSL)
- Provides two vertical mullion visual on the glass fascias adjacent to the sliding door
- Includes two vertical aluminum posts to be used at a fixed distance from the door



Sliding Door Extended Rail Single (FZSESR)

- Rail for all the sliding door leaves single: Glass (FZSGSL), Solid (FZSSSL), and Solid with Glass Insert (FZSNSL)
- Rail lengths are available from 75” to 144" in 1/8" increments
- Provides a storefront so that a continuous wall of glass can be created without mullions beside the door
- Needs to be used when a connection is required at the end of the rail. Can be used with a wall start, in line connection, two way connection, three way connection, Altos connection, Clerestory connection



Sliding Door Extended Rail Double (FZDESR)

- Rail for the Glass Sliding Door Leaf Double (FZDGSL)
- Provides a storefront so that a continuous wall of glass can be created without mullions beside the door
- Needs to be used when a connection is required at the end of the rail. Can be used with a wall start, in line connection, two way connection, three way connection, Altos connection, Clerestory connection

planning with jambs and rails

The following chart outlines which door leaf /jamb/rail combinations are possible.

Hinged Door

	Leaf	Jamb	Handle
Single	FZSGHL	FZSGHF	FZHSS FZHSX
	FZSSHL	FZSSHF	FZHSS FZHSX FZHSL
Double	FZDGHL	FZDGHF	FZHSS FZHSX

Pivot Door

	Leaf	Jamb	Handle
Single	FZSGPL	FZSGPF	FZHSS FZHSX FZHSL

Sliding Door

	Leaf	Jamb	Rail	Handle
Single	FZSGSL	FZSGSJ	FZSESR FZSFSR	FZSCP FZSFP
	FZSSSL	FZSSSJ		
	FZSNSL			
Double	FZDGSL	FZDGSJ	FZDESR FZDFSR	FZSCP FZDFP

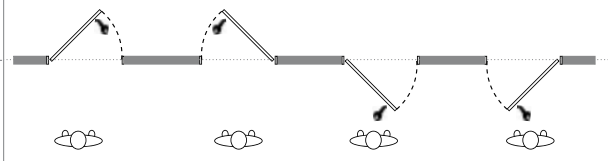
planning with doors

This chart outlines the possible door swing/slide orientations.

- Left or right handedness is determined by the opening slide/swing direction of travel
- Locking or non-locking doors are available
- Keyed Lock is always on the outside and Thumb Turn on the inside

Swing Doors (Pivot & Hinged)

Single Leaf Doors



Left Hand | Right Hand | Left Hand Reverse Swing | Right Hand Reverse Swing

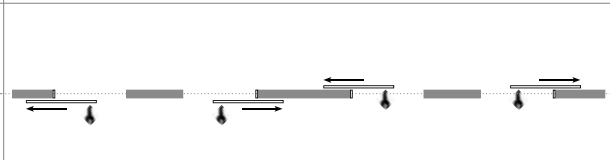
Double Leaf Doors

Double leaf | Double leaf reverse swing (Special request only)

Double leaf (Special request only) | Double leaf reverse swing (Special request only)

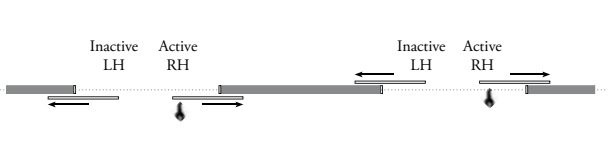
Sliding Doors

Single Leaf Doors



Left Hand Exterior | Right Hand Exterior | Left Hand Interior | Right Hand Interior

Double Leaf Doors



Double leaf Exterior | Double leaf Interior

Legend	
🔑	Active locking door applicable

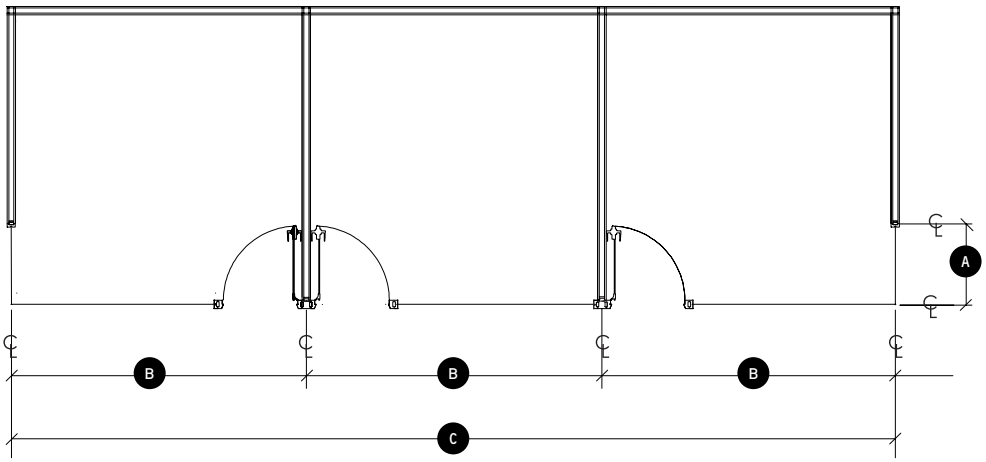
planning with swing doors & frames

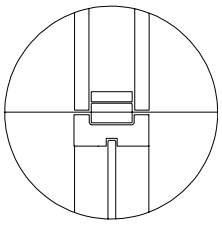
The following should be considered when installing Optos Door and Frame components.

critical dimensions

Dimensions are measured to centerlines and dependent on the application type

- A Centerline to vertical Centerline at Optos to Altos join
- B Optos Centerline to vertical Centerline of post door frame
- C Overall length according to Altos Centerline module length

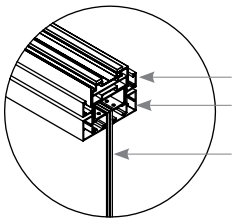


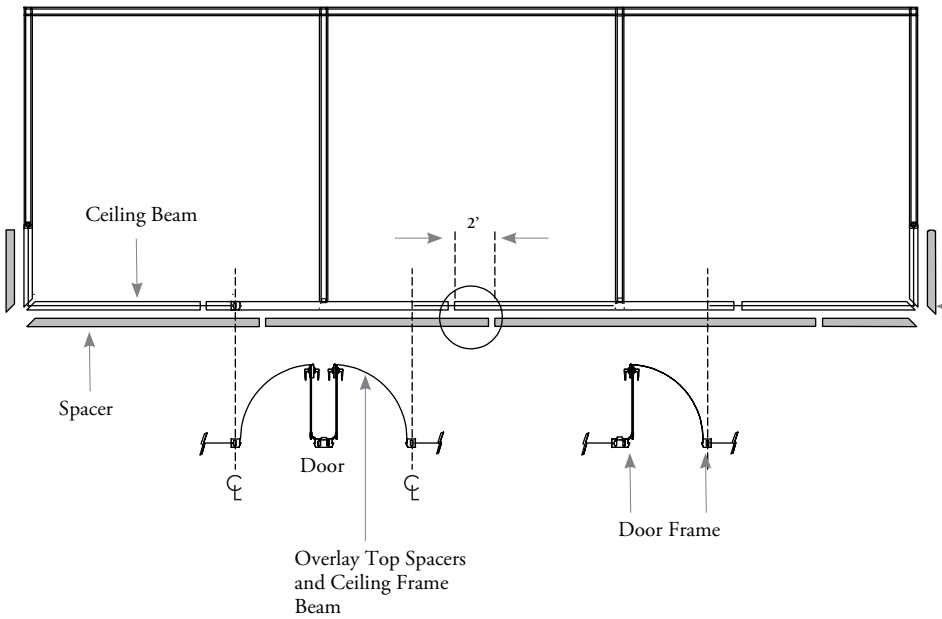


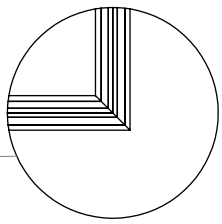
Vertical Optos to Altos joint

top spacer

- Plan sizes to optimize pre-cut lengths for waste reduction
- Overlap top spacer and ceiling beam joins by 2’
- Joins require a splice kit





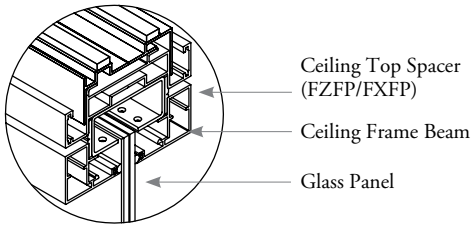


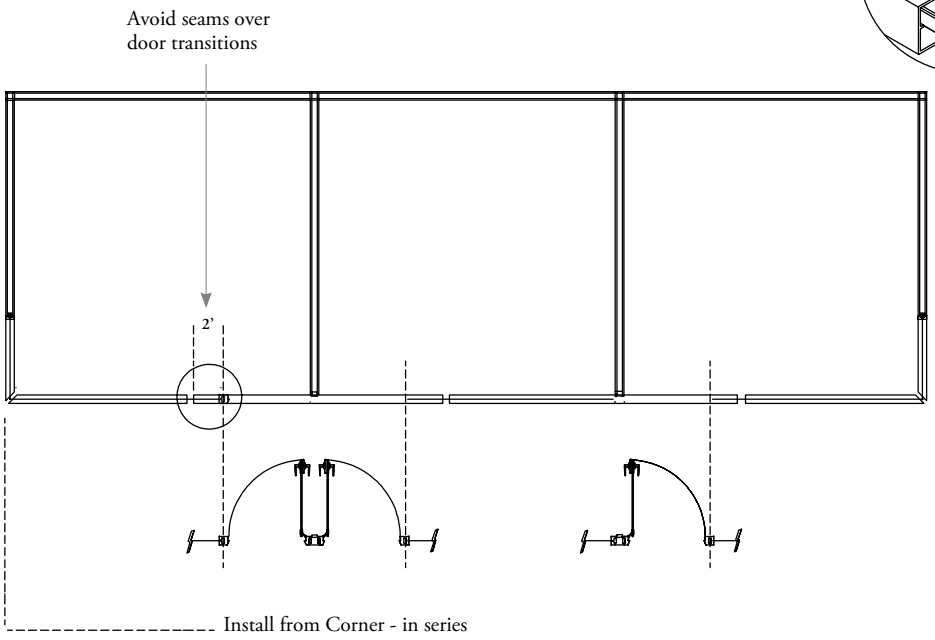
Top Spacer Mitered Corner

planning with swing doors & frames (continued)

ceiling frame beam

- Plan sizes to optimize pre-cut lengths and reduce waste
- Different combinations of Altos/Optos corners require specific ceiling frame beam lengths to accommodate modification on site

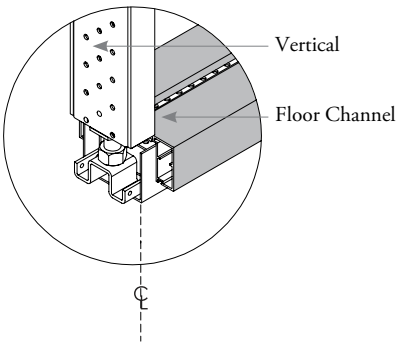


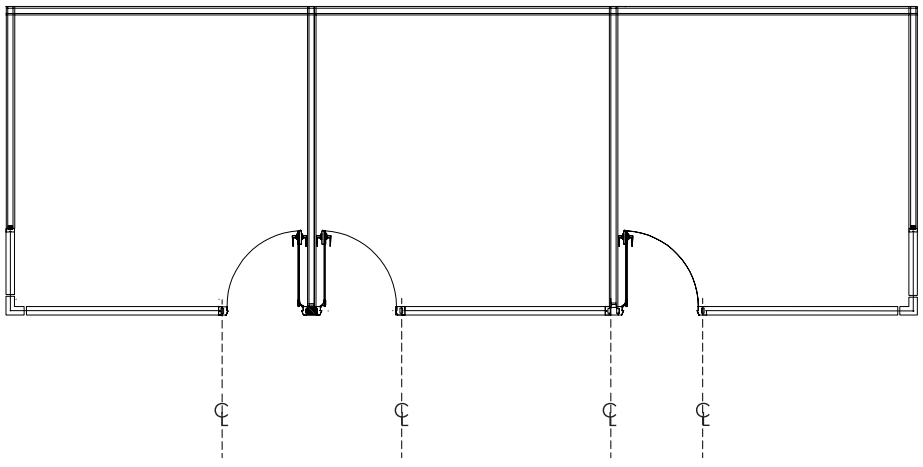


base frame & channel assemblies

floor channel

- Plan size to optimize pre-cut length to reduce waste
- Finishes on vertical centerline
- Stops at door frame centerline

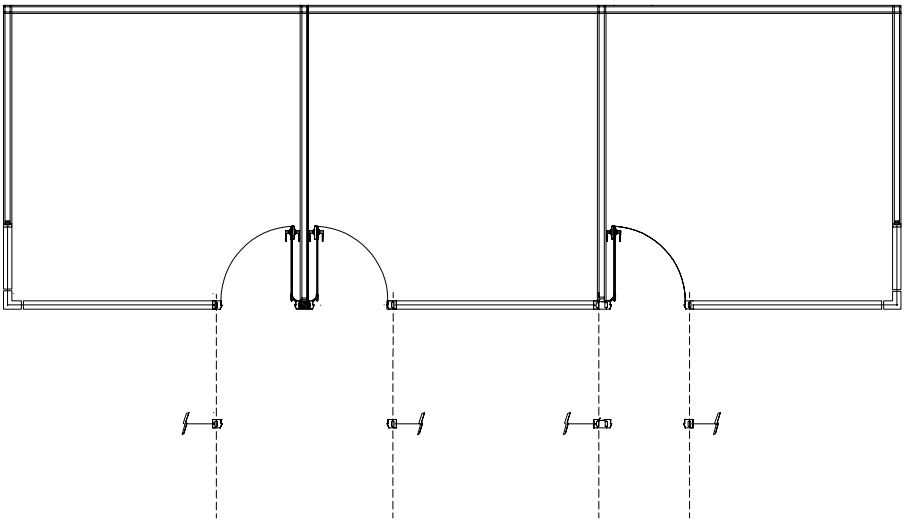




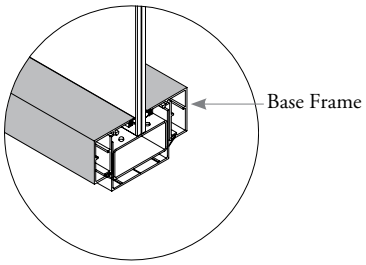
planning with swing doors & frames (continued)

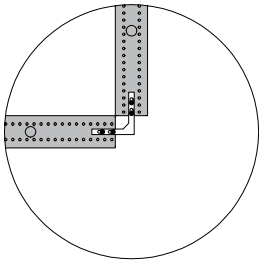
base frame

- Provides leveling and supports the glass
- Stops at ends of door vertical faces
- Lengths are spliced together with kit



Cut to face of vertical post





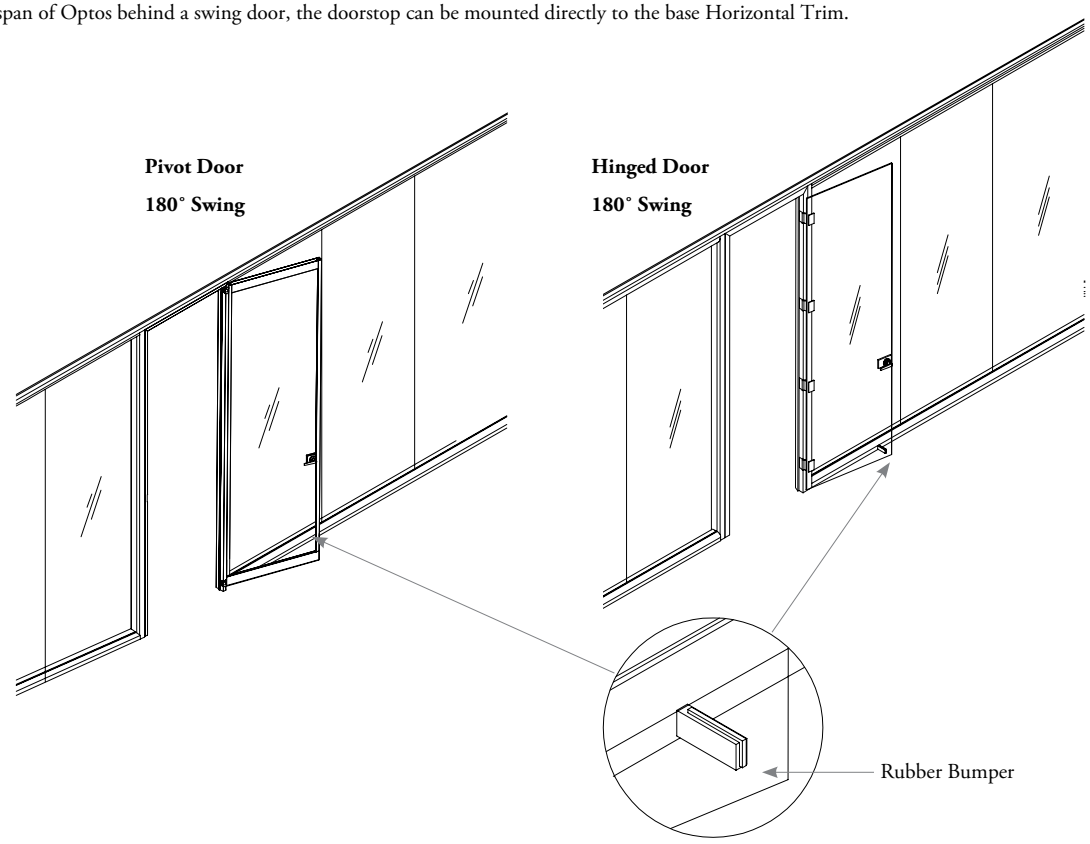
Registration with Bracket

planning with door stops

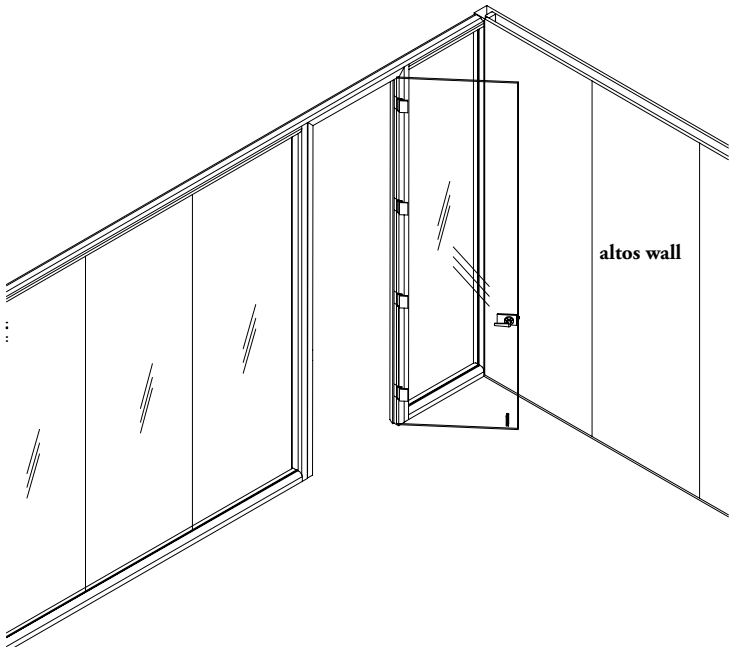
The following should be considered when determining the placement of Optos doorstops.

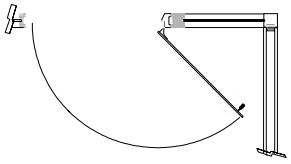
• Doorstops are provided with single and double hinged glass door leaves and solid hinged door leaves (i.e. NOT with Door Jambs)

When there is a span of Optos behind a swing door, the doorstop can be mounted directly to the base Horizontal Trim.

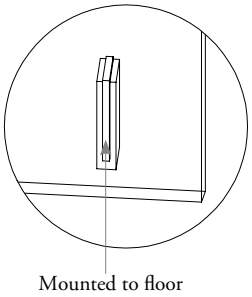


If no Optos is present in the swing path of the glass door, or if the angle of contact is greater than 90º, the Doorstop has an option for floor mounting.





Greater than 90º Swing



planning with single sliding doors

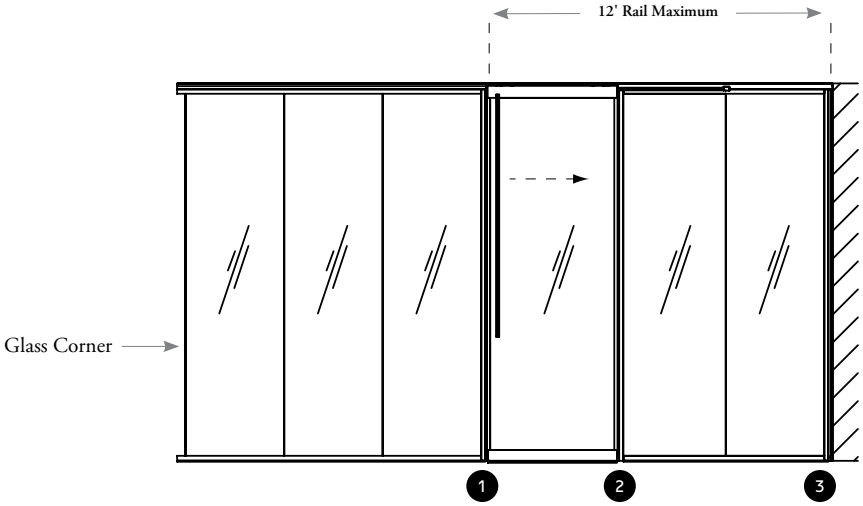
Three vertical elements are required for Single Sliding Door installations. The following scenarios outline various ways to plan a Sliding Door.

scenario 1

Central sliding Door between a 10mm Glass Corner and a Wall Start.

Required Vertical Structural Components:

1. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
2. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
3. Adjustable Wall Start (FZWS/FXWS) + Vertical Trim (FZFTV/FXFTV)

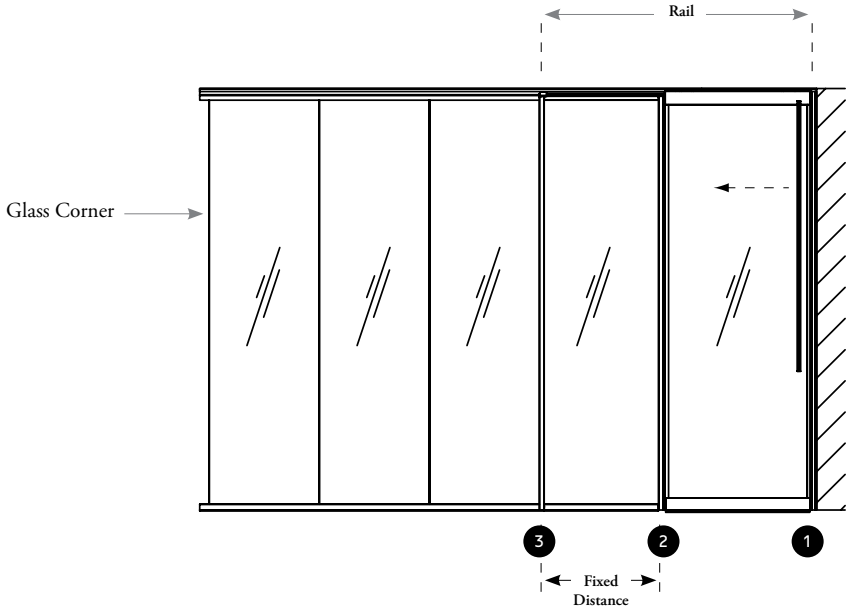


scenario 2

Sliding Door against a Wall and a Corner on the opposite side

Required Vertical Structural Components:

1. Adjustable Wall Start (FZWS/FXWS) + Vertical Trim (FZFTV/FXFTV)
2. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
3. 3rd Post in the Standard Glass Barn Door Jamb (FZDBJP/FXDBJP)

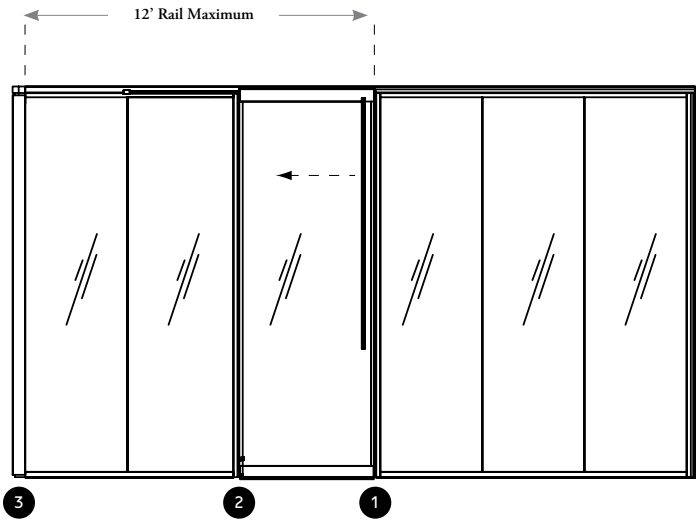


scenario 3

Central Sliding Door beside a Two-Way Altos to Optos Corner

Required Vertical Structural Components:

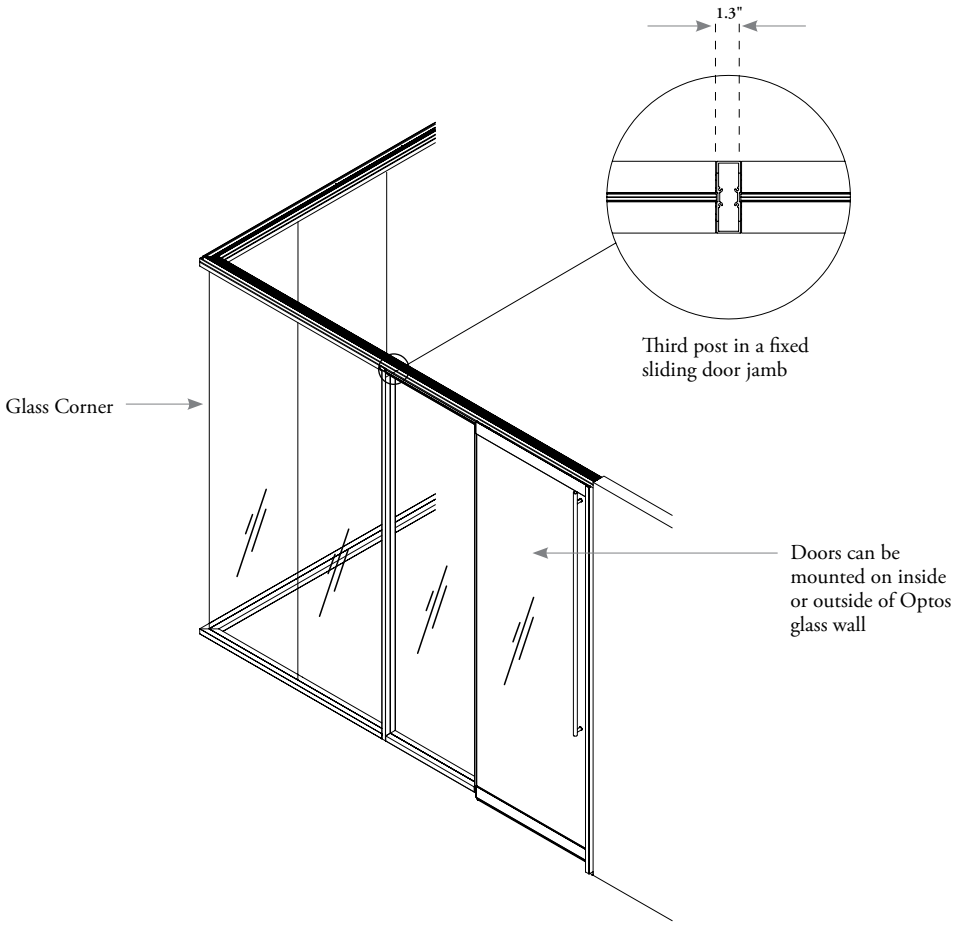
1. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
2. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
3. Two-Way 90˚ Connection with Altos (FZCA2F/FXCA2F)



planning with single sliding doors (continued)

fixed format

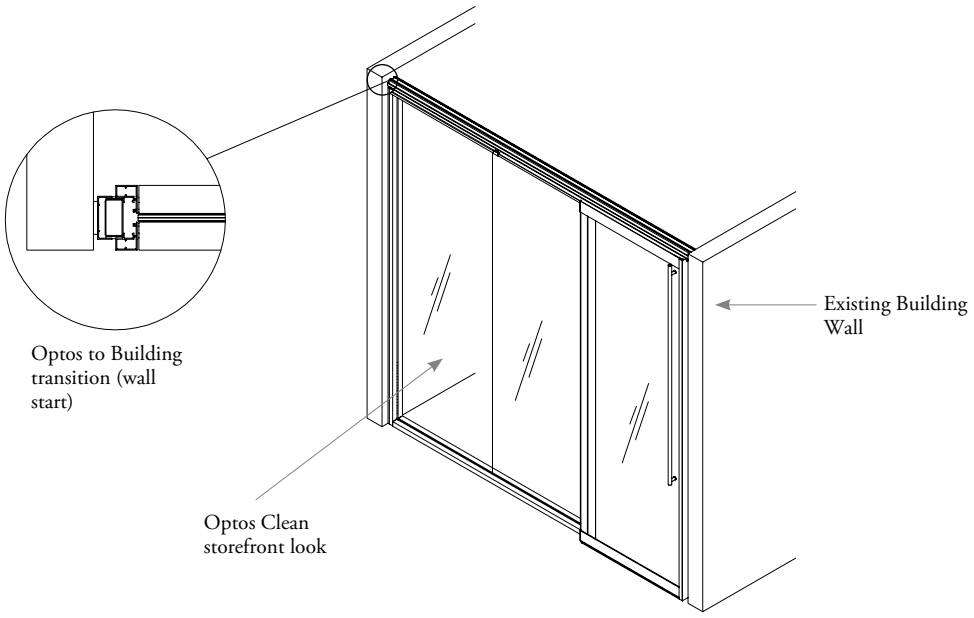
Use fixed rail and jamb when there is a glass corner or the glass wall run is greater than 12'.



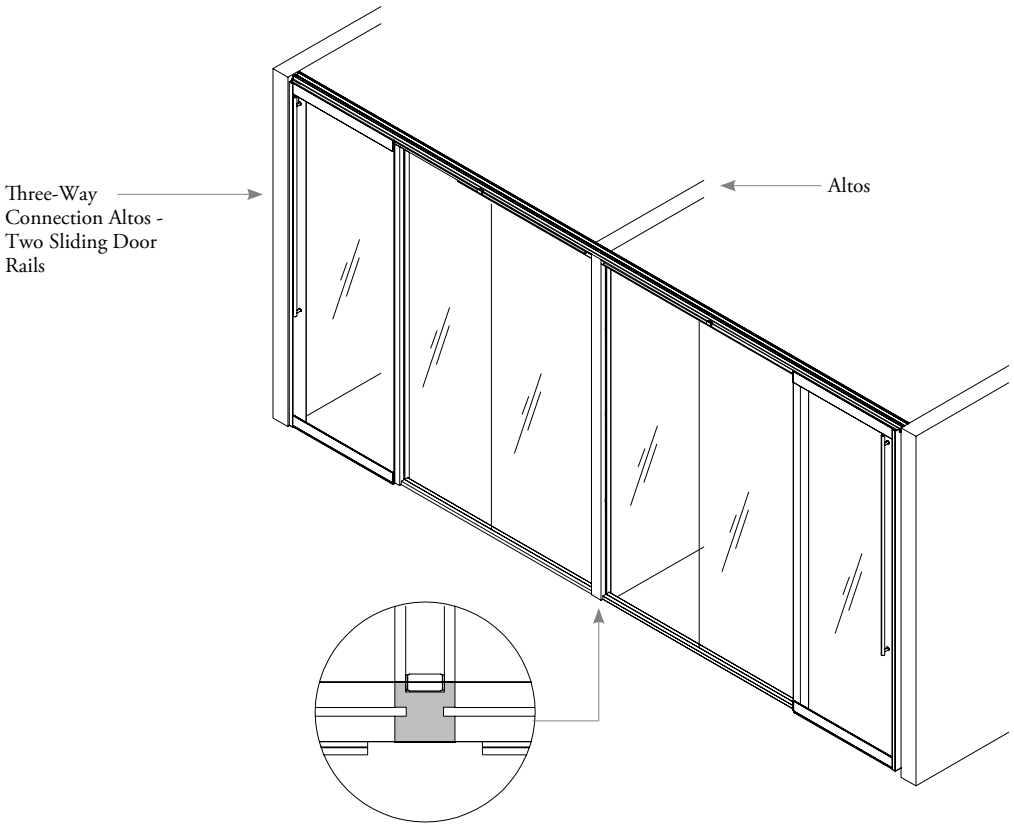
planning with single sliding doors (continued)

extended format

Use extended rail and jamb between drywall or Altos or Optos where center to center end posts are no greater than 12' apart.



Whenever planning with extended rail and frame format, the end of rail connection must be made with either a wall start or one of the two- or three-way connections for Sliding Door Ends.



planning with double sliding doors

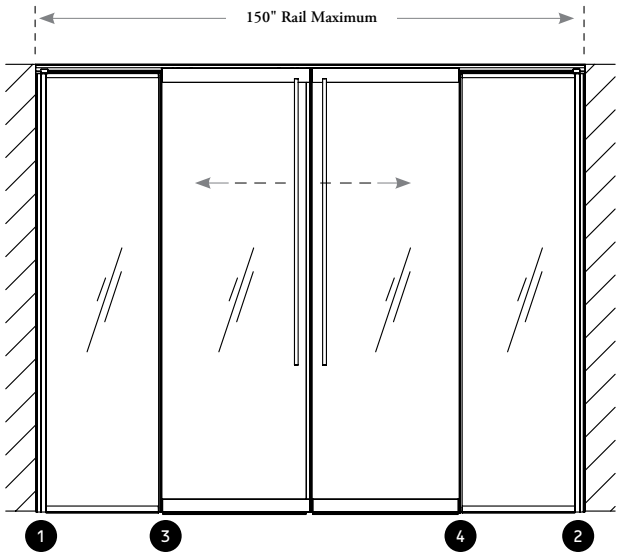
Four vertical elements are required for Double Glass Sliding Door installations. The following scenarios outline various ways to plan with Double Sliding Doors.

scenario 1

Double Sliding Door between Wall Starts

Required Vertical Structural Components:

1. Adjustable Wall Start (FZWS/FXWS) + Vertical Trim (FZFTV/FXFTV)
2. Adjustable Wall Start (FZWS/FXWS) + Vertical Trim (FZFTV/FXFTV)
3. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
4. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)

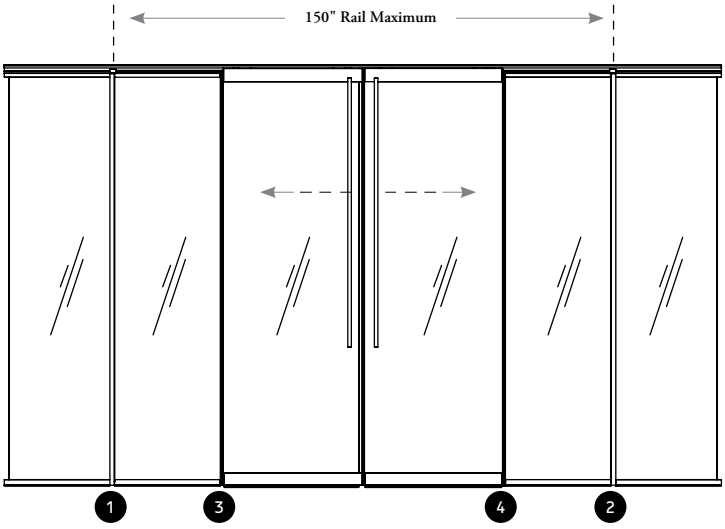


scenario 2

Double Sliding Door on a Straight Glass Run

Required Vertical Structural Components:

1. Integrated Post within Standard Double Barn Door Jamb (FZDLJP/FXDLJP)
2. Integrated Post within Standard Double Barn Door Jamb (FZDLJP/FXDLJP)
3. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
4. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)

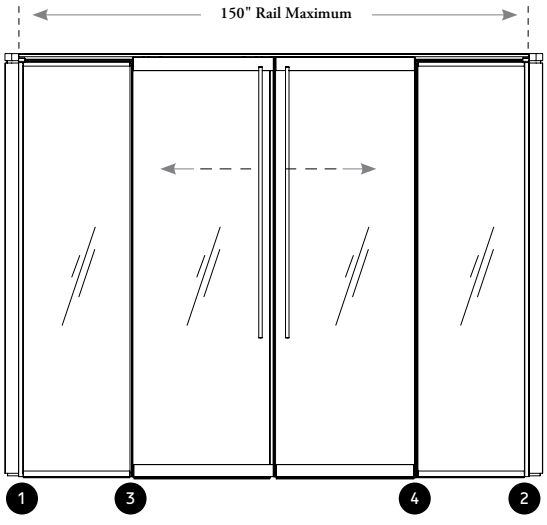


scenario 3

Double Sliding Door between two Altos Two-Way Corner Connections

Required Vertical Structural Components:

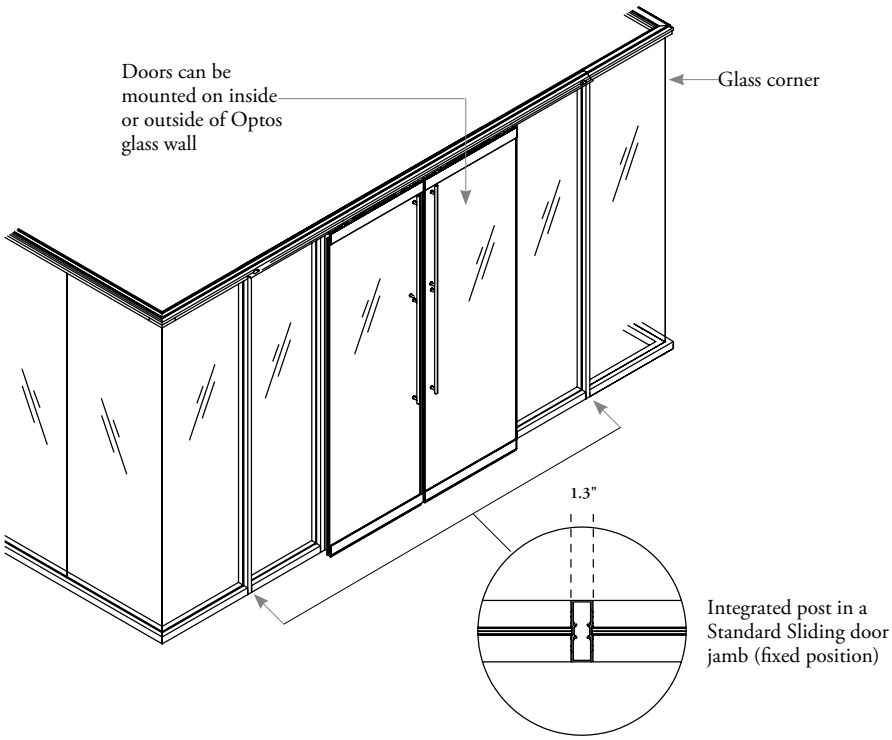
1. Two-Way Connection for Barn Door Rail End with Altos (FZCA2F/FXCA2F)
2. Two-Way Connection for Barn Door Rail End with Altos (FZCA2F/FXCA2F)
3. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
4. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)



planning with double sliding doors (continued)

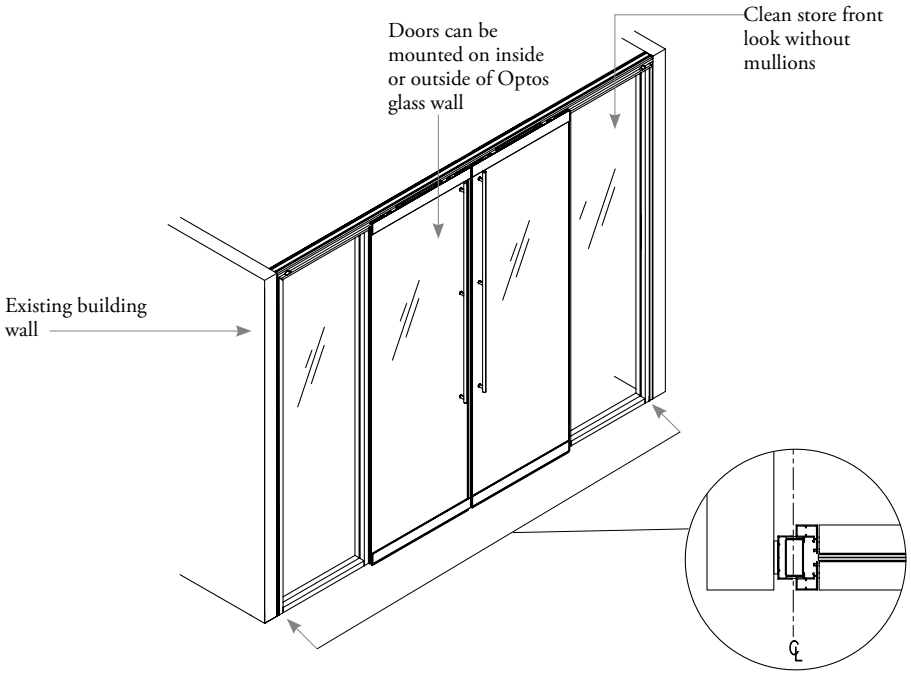
fixed format

Use fixed rail and jamb when there is a glass corner or the glass wall run is greater than 146".



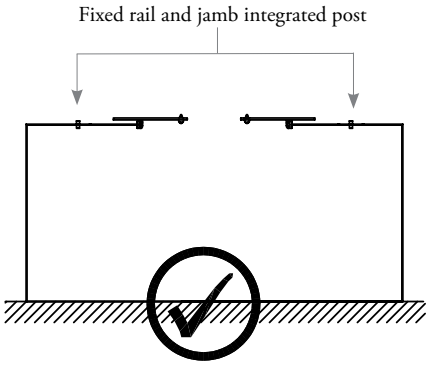
extended format

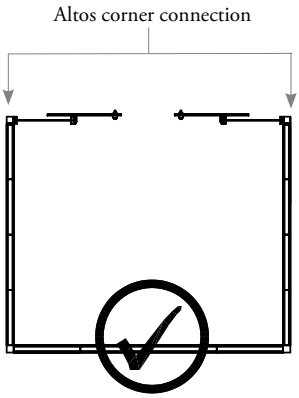
Use extended rail and jamb between drywall or Altos where center to center between end posts is no greater than 146".

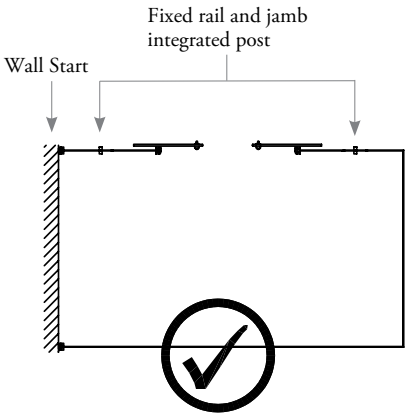


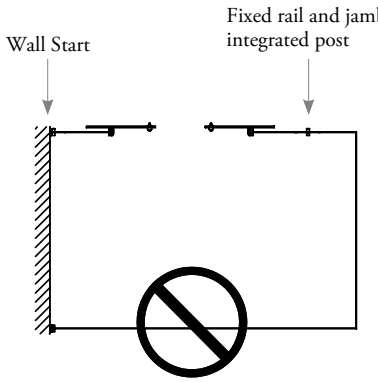
planning with double sliding doors (continued)

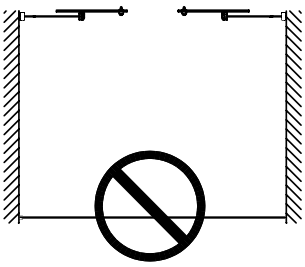
Both end conditions of door module must be the same either fixed rail and jamb integrated post or wall start/Altos connection.



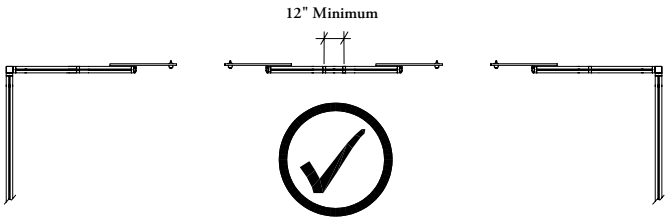




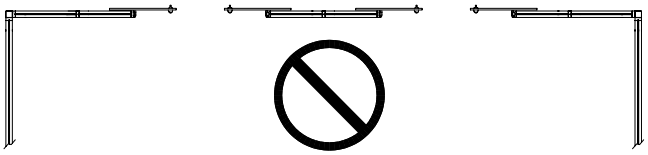




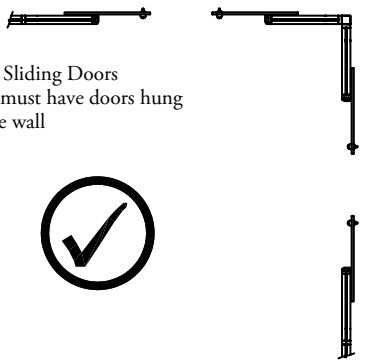
Fixed Double Sliding Doors **cannot** be placed between two drywalls



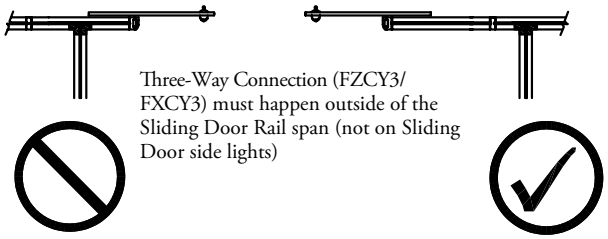
Two fixed jamb doors must be separated by a minimum of 12"



Two adjacent fixed jamb doors **cannot** share a common integrated post



Two sets of Double Sliding Doors meeting at a corner must have doors hung on the outside of the wall

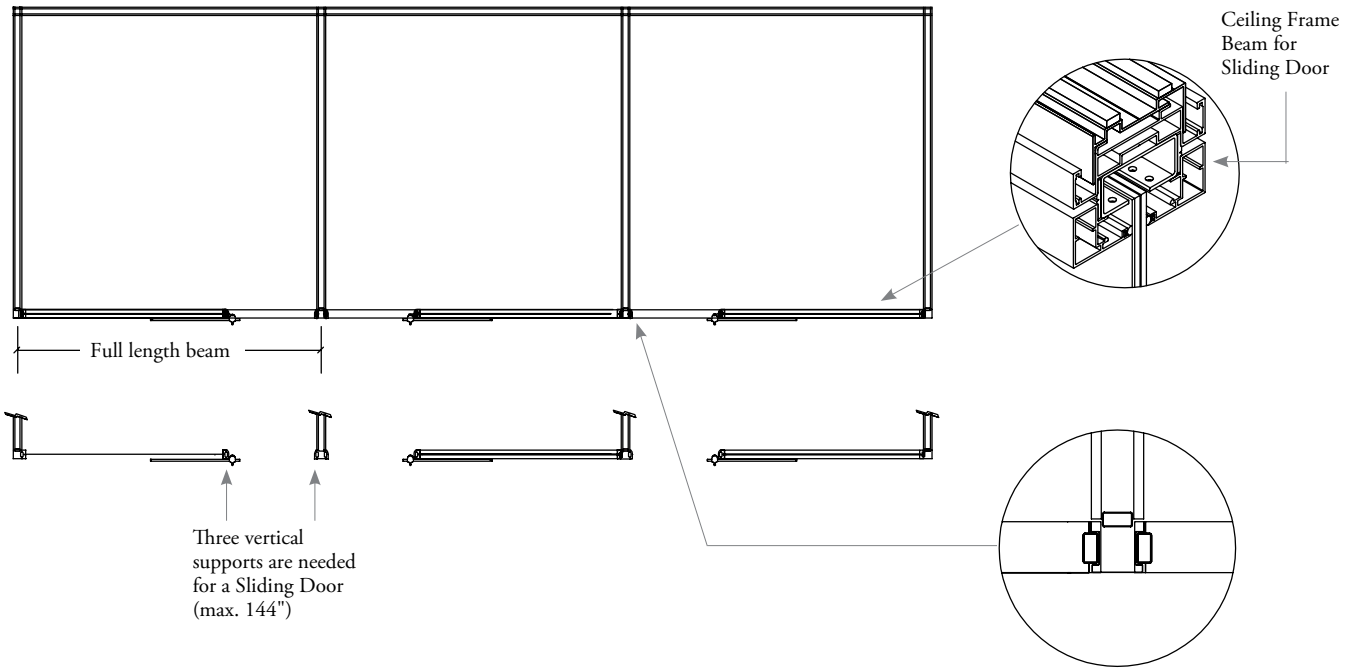


Three-Way Connection (FZCY3/ FXCY3) must happen outside of the Sliding Door Rail span (not on Sliding Door side lights)

planning with double sliding doors (continued)

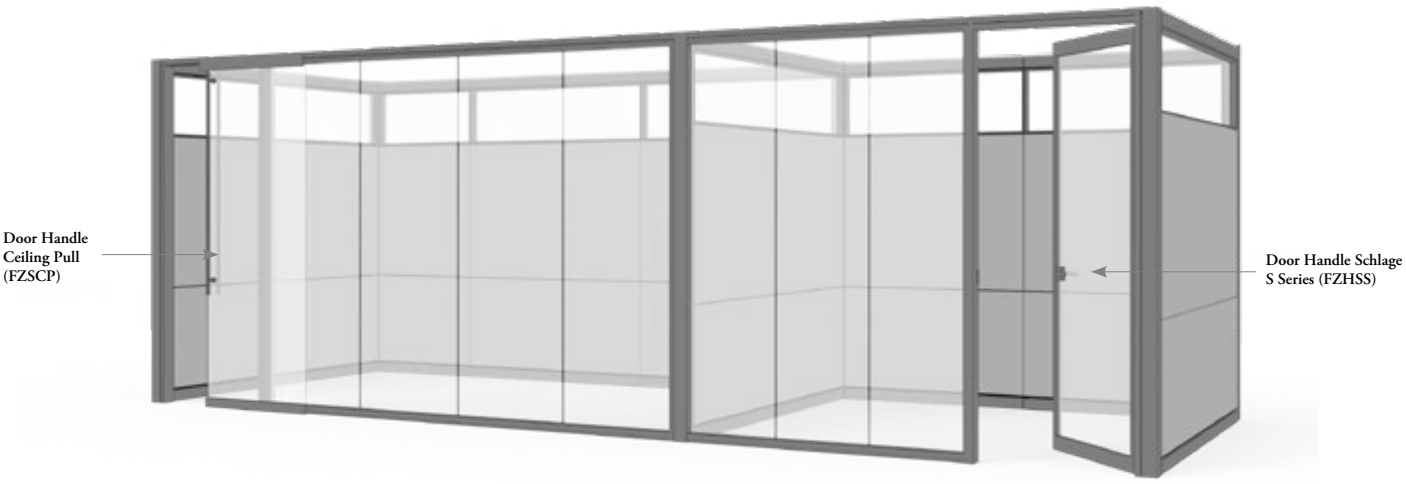
sliding door rail

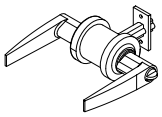
The Sliding Door rail replaces the Ceiling Frame Beam when Sliding Doors are used.



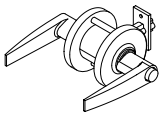
handle basics

The following outlines the handles available on the swing and sliding door programs.

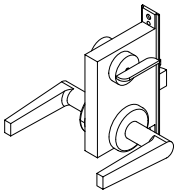




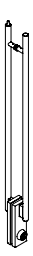
Door Handle Schlage S Series (FZHSS)



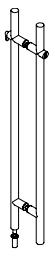
Door Handle Schlage ALX Series (FZHSX)



Door Handle Schlage L Series (FZHSL)



Door Handle Ceiling Pull (FZSCP)

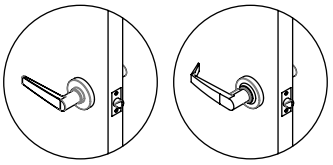
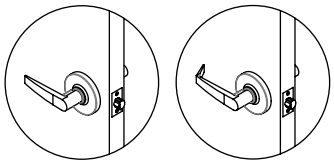
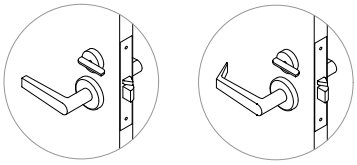
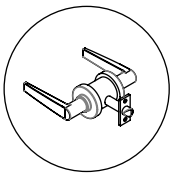
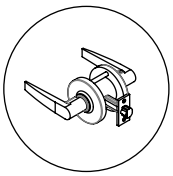
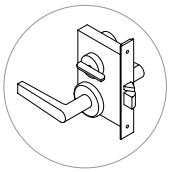
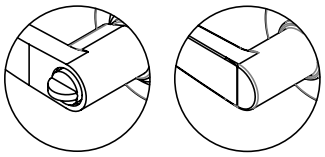
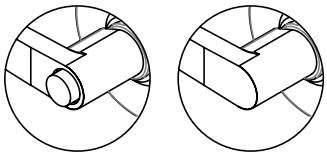
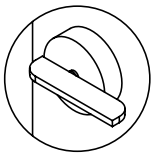
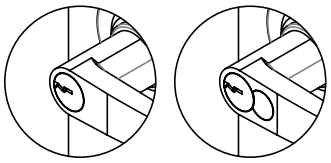
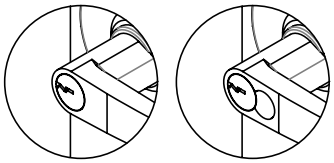
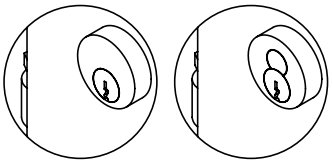


Door Handle Floor Pull (FZSFP)

Control Key (FXKK)

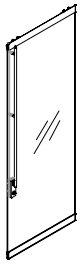
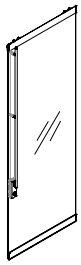
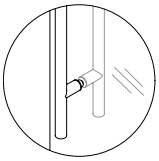
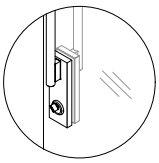
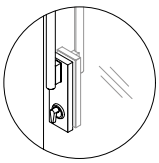
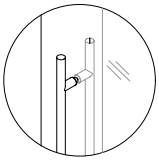
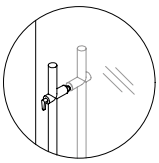
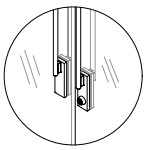
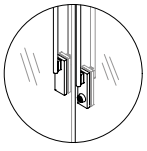
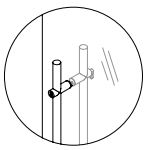
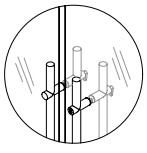
- Used to remove or install an interchangeable core

lever details

	Levers		
Series Name	**S Series**	**ALX Series**	**L Series**
Product Code	**Door Handle Schlage S Series (FZHSS)**	**Door Handle Schlage ALX Series (FZHSX)**	**Door Handle Schlage L Series (FZHSL)**
Lever Style			
Schlage's name	Jupiter Saturn	Athens Rhodes	07 06
Teknion's name	Type J Type S	Type A Type R	Type 07 Type 06
Lock Type	 Cylindrical Lock	 Cylindrical Lock	 Mortise Lock
Lock Function	 Twist turn lock Std on S series; No Lock - Passage set	 Push button lock - ADA Std on ALX series; No Lock - Passage set	 Easy turn - ADA Schlage L583-363
Keying	 Conventional, key in lock (KIL) 6 pin; Full Size Interchangeable Core (FSIC) cylinder 6 pin	 Conventional, key in lock (KIL) 6 pin; Full Size Interchangeable Core (FSIC) cylinder 6 pin	 Conventional Mortise 6 pin; Full Size Interchangeable Core (FSIC) cylinder 6 pin
Lever Finish Options	Satin chrome ANSI/ BHMA 626, US26D	Satin chrome ANSI/ BHMA 626, US26D and Matte Black ANSI/ BHMA 622, US19	Satin chrome ANSI/ BHMA 626, US26D and Matte Black ANSI/ BHMA 622, US19

- Inside lever always free for immediate egress
- Doors specified with “Conventional Cylinder” are keyed randomly (two keys provided per door)
- Doors specified with “Interchangeable Core Cylinder” are keyed randomly (two keys provided per door) but cylinders can be removed by a universal control key (Order Key Separately)
- After installations, customers may choose to relocate or replace interchangeable core cylinders to suit their security needs
- Keying is std Schlage Everest S123 Keyway, The Everest “S123” key is backwards compatible to the Everest “C123” keyway lock cylinders. However, the “S123” key is not backwards compatible with the “C” keyway lock cylinders.
- The Keyway is open, meaning they are available to end users from locksmiths for key duplication without any official procedures
- When keys are lost or not available, interchangeable cores can be removed and replaced using control keys. Control keys are available only for handles that have interchangeable core cylinders. Control keys need to be order separately

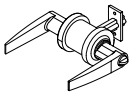
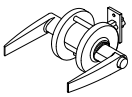
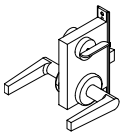
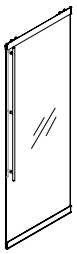
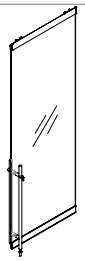
pull details

	Pulls				
Series Name	**OS Series**			**TE Series**	
Product Code	**Door Handle Ceiling Pull (FDSCP)**			**Door Handle Floor Pull (FDSFP)**	
					
Handle Type	**(A) Ceiling Non Locking**	**(B) Ceiling Locking**	**(C) Ceiling Locking with ADA thumbturn**	**(D) Floor Non Locking**	**(E) Floor Locking with ADA thumbturn**
Lock Function					
Visual characteristics	1" Tubular steel pull	1" Tubular steel pull Patch cover: • Die cast construction • No exposed fasteners	1" Tubular steel pull Patch cover: • Die cast construction • No exposed fasteners	1-3/8" Tubular steel pull	1-3/8" Tubular steel pull Lock integrated in pull
Pull Finish options	Stainless Steel ANSI / BHMA 630, US32D or Steel Painted	Stainless Steel ANSI / BHMA 630, US32D or Steel Painted	Stainless Steel ANSI / BHMA 630, US32D or Steel Painted	Stainless Steel ANSI / BHMA 630, US32D or Painted Matte Black	Stainless Steel ANSI / BHMA 630, US32D or Painted Matte Black
Pull Length	Configurable to ceiling heights in 1" increments	Configurable to ceiling heights in 1" increments	Configurable to ceiling heights in 1" increments	48"	48"
Height AFF	39-1/2" from finished floor to bottom of handle	39-1/2" from finished floor to bottom of handle	39-1/2" from finished floor to bottom of handle	48-1/2" from finished floor to top of pull	48-1/2" from finished floor to top of pull
Keying	No Lock	Full Size Interchangeable Core (FSIC) cylinder 6 pin Single  Double 	Full Size Interchangeable Core (FSIC) cylinder 6 pin Single  Double 	No Lock	Full Size Interchangeable Core (FSIC) Rim Cylinder Single  Double 
Retrofitting between Locking & Non-Locking	**No**	**No**	**No**	**Yes**	**Yes**
ADA Code compliance	**Yes**	**No**	**Yes**	**No**	**No**

- 1-1/2" clear space between glass and handle
- When keys are lost or not available, interchangeable cores can be removed and replaced using control keys. Control keys are available only for handles that have interchangeable core cylinders. Control keys need to be ordered separately

handle compatibility

The following chart outlines which door/handle combinations are possible.

		Handles							
		Levers			Pulls				
		S Series (FZHSS)	ALX Series (FZHSX)	L Series (FZHSL)	OS Series			TE Series	
					Door Handle Ceiling Pull (FZSCP)			Door Handle Floor Pull (FZSFP)	
					 (A) Ceiling Non Locking	 (B) Ceiling Locking	 (C) Ceiling Locking ADA	 (D) Floor Non Locking	 (E) Floor Locking
Hinged Doors	Glass Hinged Door Leaf Single (FZSGHL)	✓	✓						
	Solid Hinged Door Leaf Single (FZSSHL)	✓	✓	✓					
	Glass Hinged Door Leaf Double (FZDGHL)	✓	✓						
Pivot Doors	Glass Pivot Door Leaf Single (FZSGPL)	✓	✓	✓					
Sliding Doors	Glass Sliding Door Leaf Single (FZSGSL)				✓	✓	✓	✓	✓
	Solid Sliding Door Leaf with Glass Insert Single (FZSNSL)				✓	✓	✓	✓	✓
	Solid Sliding Door Leaf Single (FZSSSL)				✓	✓	✓	✓	✓
	Glass Sliding Door Leaf Double (FZDGSL)				✓	✓	✓	✓	✓

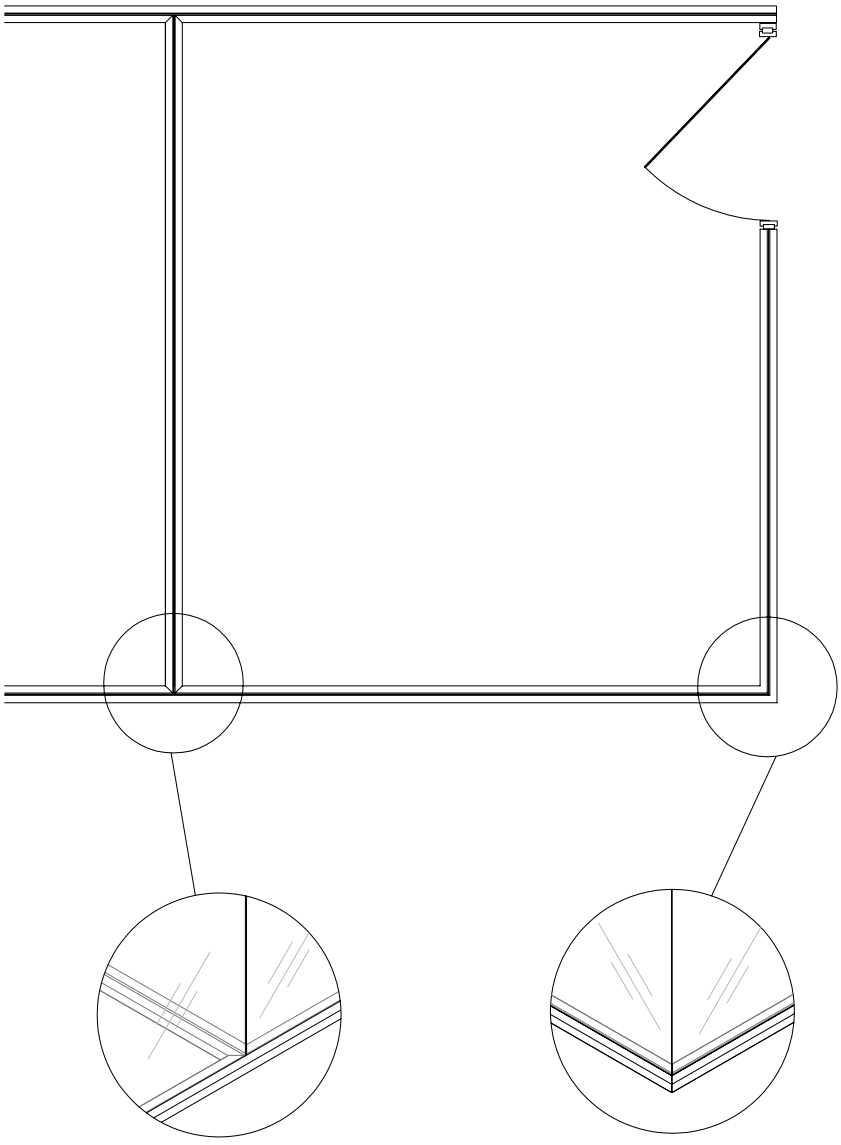
corners & connections – 10mm & 12mm

corners & connections – 10mm & 12mm

optos to optos corner connection basics

Optos to Optos corners are available in two-, three- and four-way connections.

- All Corner Connections come with Base and Ceiling components
- Clear Transparent corners to be created with no solid verticals
- Corners with Doors require different connections than corners joining glass



Three-Way Corner Connection (FZCY3/FXCY3)

- Provides the base and ceiling components for an off module three-way connection of pieces of glass
- This connection cannot be used for connections with doors

Two-Way 90˚ Corner Connection (FZCY2/FXCY2)

- Provides the base and ceiling components to connect two pieces of glass at 90˚
- This corner cannot be used for connections with doors

optos to optos corner connection basics (continued)

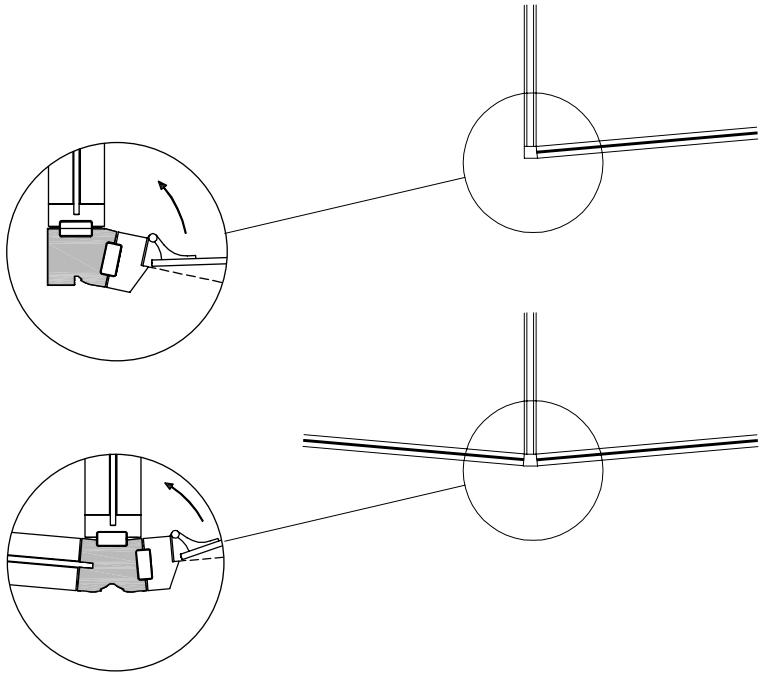
articulating two-way and three-way connections

Two-Way Articulating Corner (FZFCF2)

- Connects two straight runs of Optos at an angle

Three-Way Articulating Connection (FZFCF3)

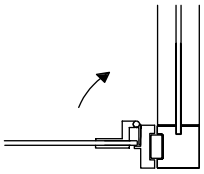
- Connects two angled runs of Optos with a straight demising wall



optos to optos corner connection with doors basics

Optos provides a number of connectors for connecting doors and glass at corners.

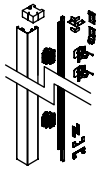
When specifying the door location, note that this is **not** the same as the swing of the door. Door location for corners indicates which side of the connection the door will be located on when viewed from the outside. The door swing direction is determined when specifying the actual door.



Left

Two-Way 90˚ Corner Connection with Door (FZCZ2/FXCZ2)

- Joins a section of glass with a door at 90˚
- Door location can be specified left or right

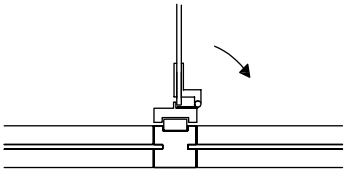


What's Included

1 outside 90˚ trim piece, 1 inside trim piece and connection hardware

What's Excluded

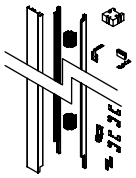
1 vertical post



Centered

Three-Way Connection with One Door (FZCZ3F/FXCZ3F)

- Joins two pieces of glass with one door
- Door location can be specified left, right or centered

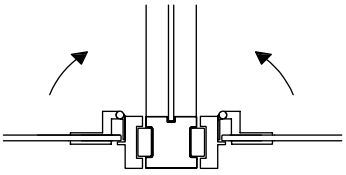


What's Included

1 outside trim piece, 2 inside trim pieces, 1 top spacer and connection hardware

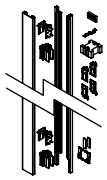
What's Excluded

1 vertical post



Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B)

- Joins one piece of glass and two doors
- Available in one configuration: Two doors at 180˚ (B)

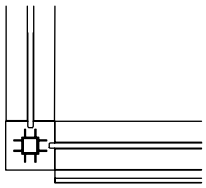


What's Included

1 outside trim piece, inside trim (quantity varies with door configuration), 1 top spacer and connection hardware

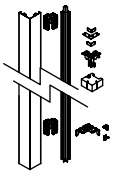
What's Excluded

2 vertical posts



Two-Way Connection for Barn Door Rail (FZCY2E/FXCY2E)

- 90˚ Connection for Sliding Door Rail Ends
- Available in two configurations, two Sliding Door Ends (shown) or two Sliding Door Ends (E) or one Sliding Door End and one Sliding Door Start (S)

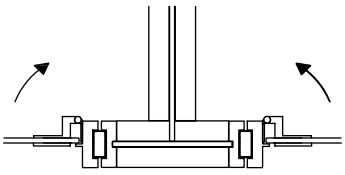


What's Included

2 cover trims; 1 top spacer; square steel tube post, connection hardware kits

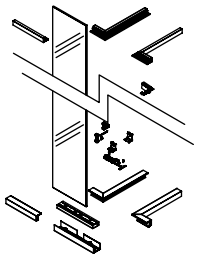
What's Excluded

Base channel assembly, ceiling spacer, glass



Three-Way Corner Connection Between Doors (FZCY3D/FXCY3D)

- Connects two doors with one piece of glass at a set distance apart

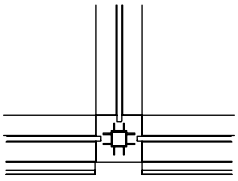


What's Included

3 cover trims, 1 top spacer, square steel tube post, connection hardware kits

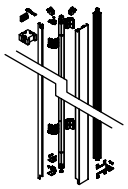
What's Excluded

Base channel assembly, ceiling spacer, glass



Three-Way Corner Connection for Barn Door Rails (FZCY3E/FXCY3E)

- Joins one pieces of glass with one or two Sliding Doors at 180˚
- Available in two configurations, two Sliding Door Ends (shown) or one Sliding Door End (E) or one Sliding Door Start and one Sliding Door End (S)



What's Included

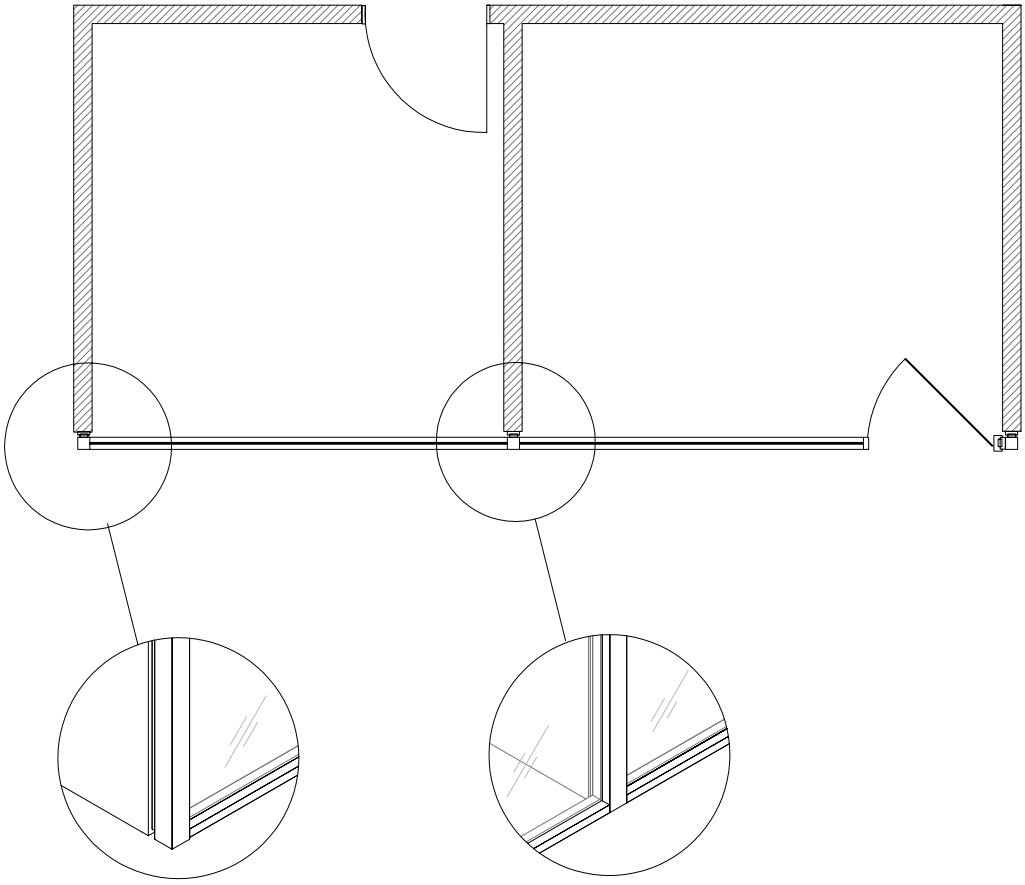
Ceiling & base trim kits, glass and base channel assembly between the posts, connection hardware kits

What's Excluded

2 Vertical post, ceiling spacer

optos to drywall corner connection basics

Optos to Drywall connections are available in two- and three-way connections.



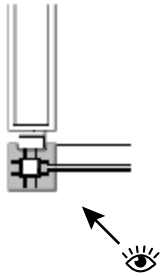
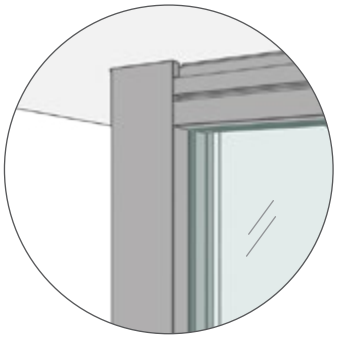
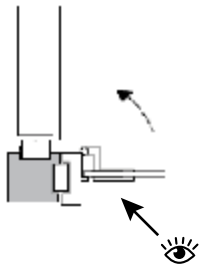
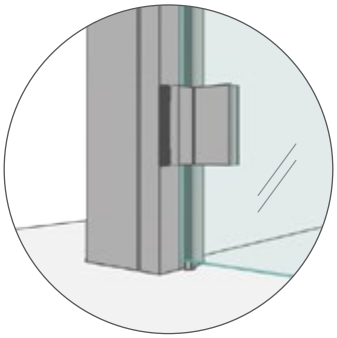
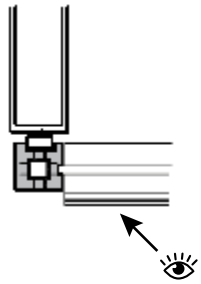
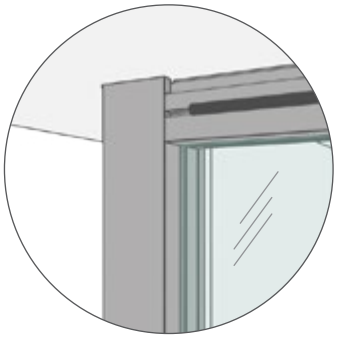
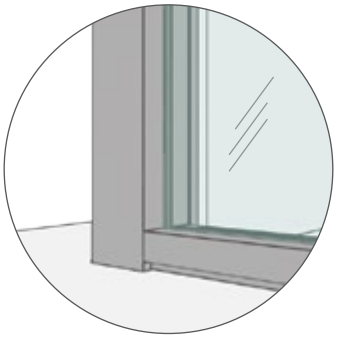
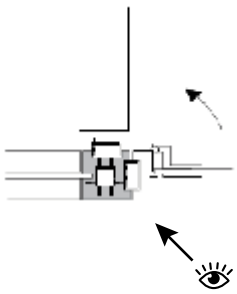
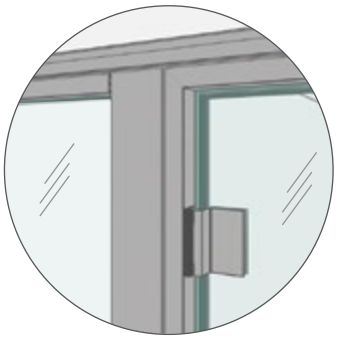
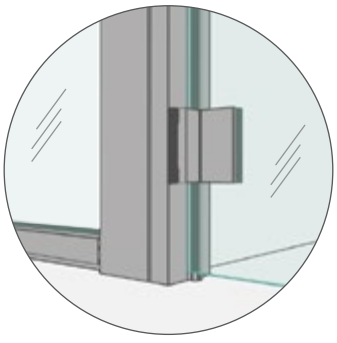
Two-Way Connection with Drywall (FZCW2/FXCW2)

Connects Optos Wall with existing building wall at 90˚. Use Door (D) configuration for one door.

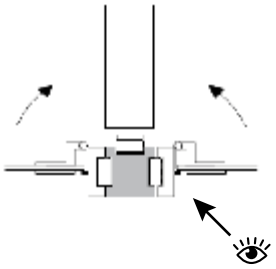
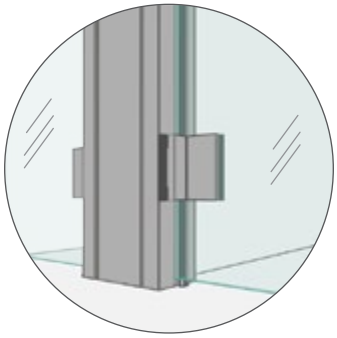
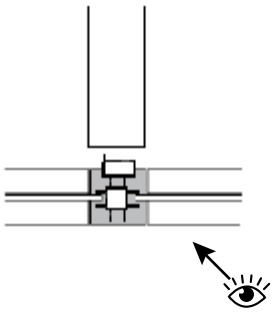
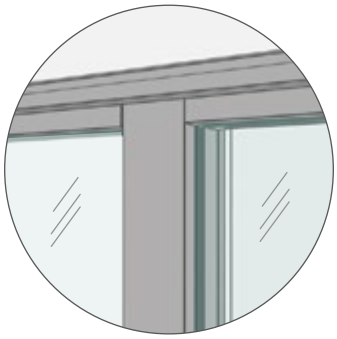
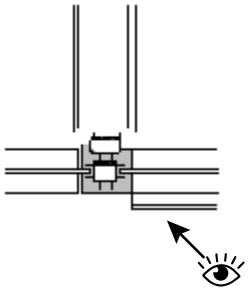
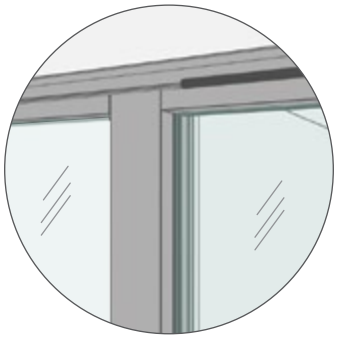
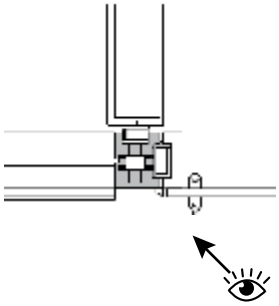
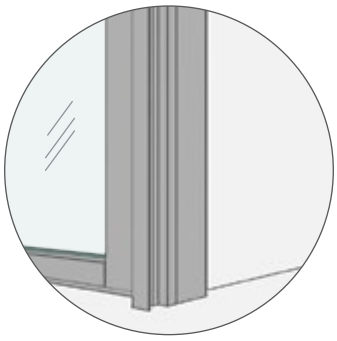
Three-Way Connection with Drywall (FZCW3/FXCW3)

Connects two Optos Walls at 180˚ to existing building wall. Use One Door (A) or Two Doors (B) configurations.

optos to drywall corner connection basics (continued)

corner connection	Top View	Ceiling Detail	Floor Detail
Two-Way Connection with Drywall - Glass (FZCW2_G/FXCW2_G) Connects Optos wall with existing building wall at 90˚.			
Two-Way Connection with Drywall - Door (FZCW2_D/FXCW2_D) Connects Optos door with existing building wall at 90˚.			
Two-Way Connection with Drywall for Barn Door Rail End(FZCW2F/FXCW2F) Connects Optos sliding door end with existing building wall at 90˚.			
Three-Way Connection with Drywall One Door (FZCW3_A/FXCW3_A) Connects one Optos wall and one door at 180˚ to existing building wall.			

optos to drywall corner connection basics (continued)

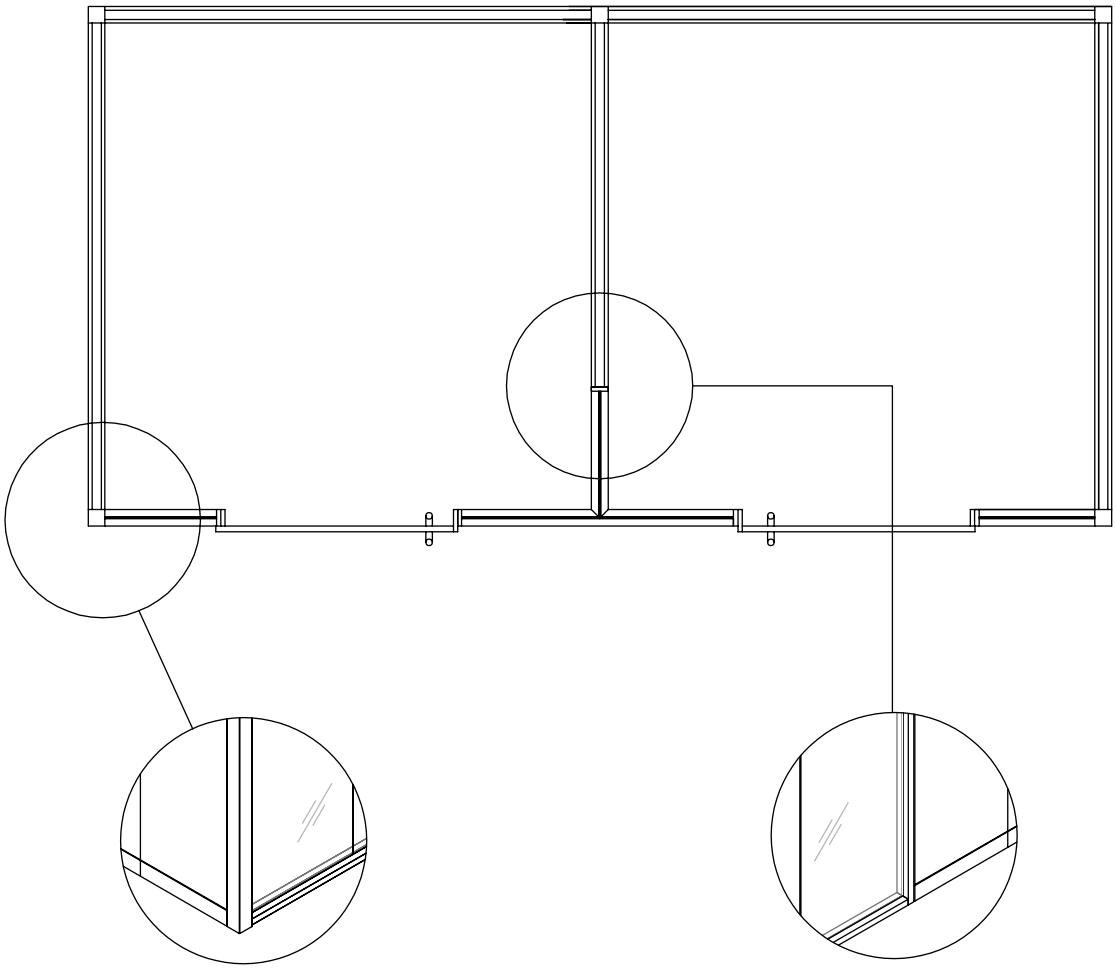
corner connection	Top View	Ceiling Detail	Floor Detail
Three-Way Connection with Drywall Two Doors (FZCW3_B/FXCW3_B) Connects two Optos doors at 180˚ to existing building wall.			
Three-Way Connection with Drywall Glass (FZCW3_G/FXCW3_G) Connects two Optos walls at 180˚ to existing building wall.			
Three-Way Connection with Drywall for Barn Door Rails (FZCW3E_N/FXCW3E_N) **Door End, Glass** Connects one Optos wall and one sliding door end at 180˚ to existing building wall.			
Three-Way Connection with Drywall for Barn Door Rails (FZCW3E_T/FXCW3E_T) **Door Start, Door End** Connects one Optos sliding door end and one sliding door start at 180˚ to existing building wall.			

optos to altos corner connection basics

Optos to Altos connections are available inline, two- and three-way connections.

Where an Altos wall connects to an Optos to Altos corner always use an Altos Vertical Post (FKV) and must be specified separately. 180˚ Connection with Altos (FZCA1) is the only exception and the Optos Vertical Post (FZFV) is included in the corner package.

two-way connections



Two-Way 90˚ Connection with Altos (FZCA2/FXCA2)

Connects an Optos wall with an Altos wall at a 90˚ angle

180˚ Connection with Altos (FZCA1/FXCA1)

- Connects an Optos wall with an Altos wall at 180˚
- Use Glass (G) configuration for Optos glass and Door (D) configuration with an Optos door

optos to altos corner connection basics (continued)

three-way and four-way connections

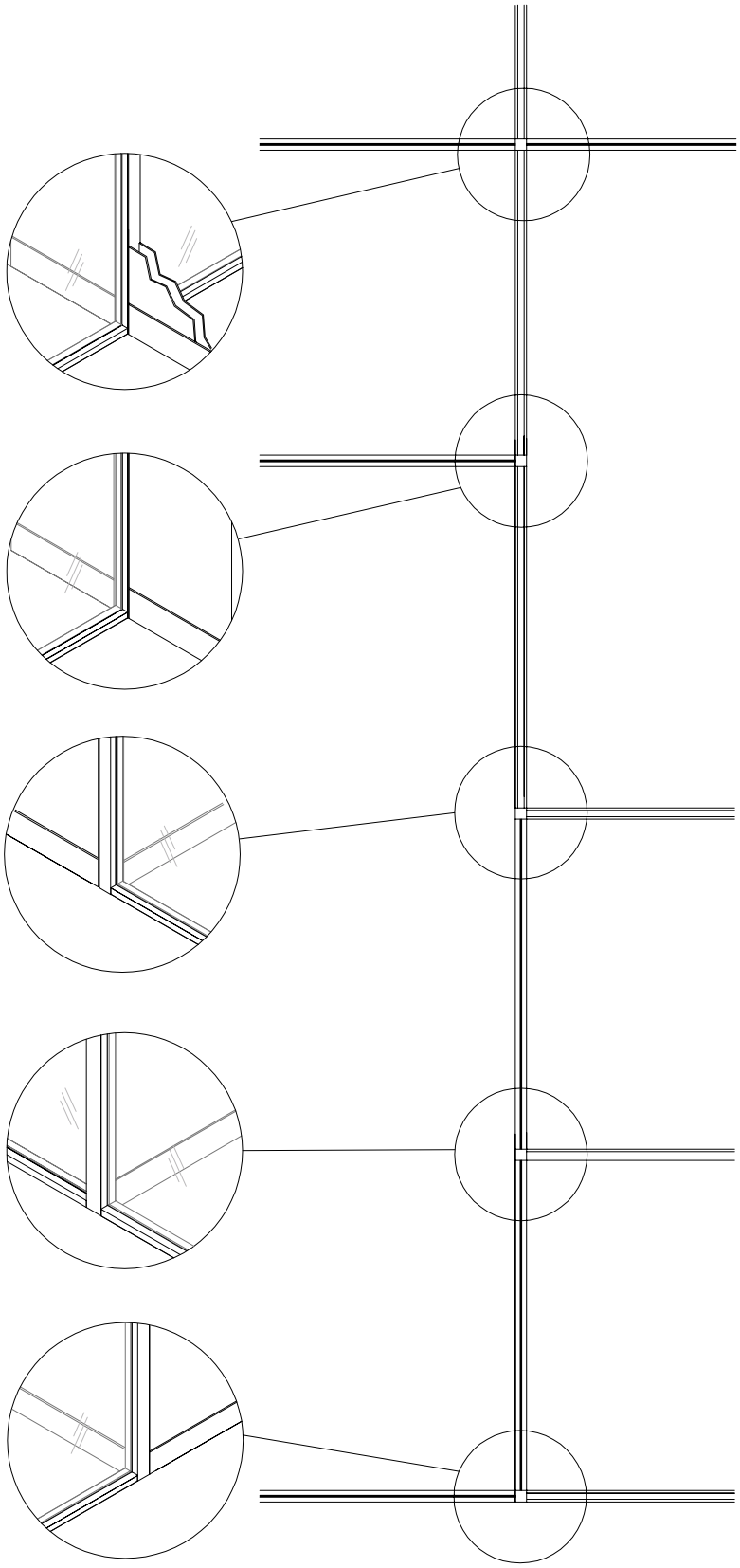
Four-Way Connection with Altos – Two Optos at 180° (FZCA4B/FXCA4B)
Connects two Optos walls at 180° to two Altos wall at 180°

Three-Way Connection with Altos – Two Altos at 180° (FZCA3D/FXCA3D)
Connects two Altos walls at 180° to an Optos wall

Three-Way Connection with Altos – Two Altos at 90° (FZCA3C/FXCA3C)
Connects two Altos walls at 90° to an Optos wall

Three-Way Connection with Altos – Two Optos at 180° (FZCA3B/FXCA3B)
Connects two Optos walls at 180° to an Altos wall

Three-Way Connection with Altos – Two Optos at 90° (FZCA3A/FXCA3A)
Connects two Optos walls at 90° to an Altos wall



optos to altos corner connection basics (continued)

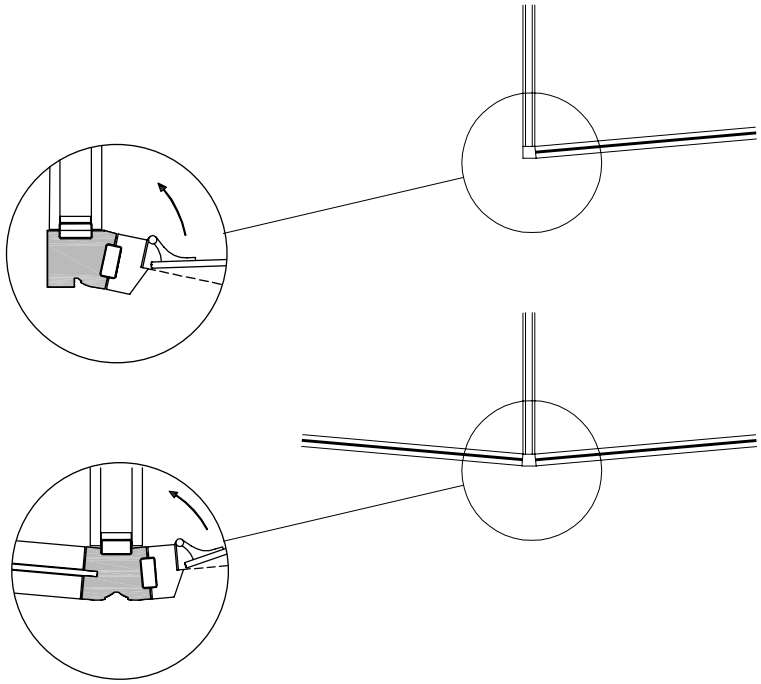
articulating two-way and three-way connections

Two-Way Articulating Corner (FZFCA2)

- Connects two straight runs one Optos, one Altos at an angle

Three-Way Articulating Connection (FZFCA3)

- Connects two angled runs of Optos with Altos demising

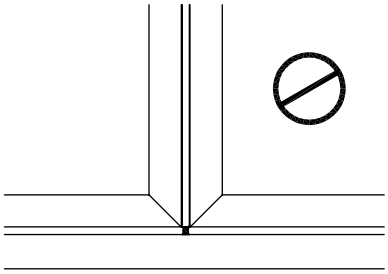


planning with optos connections

The following rules should be taken into consideration when planning with Optos Corners & Connections.

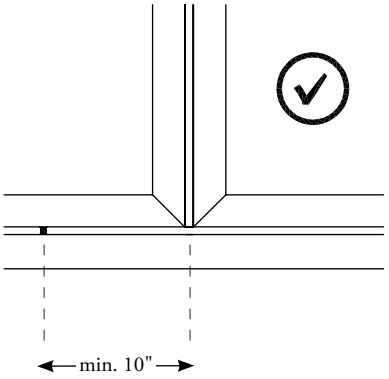
optos to optos

restriction



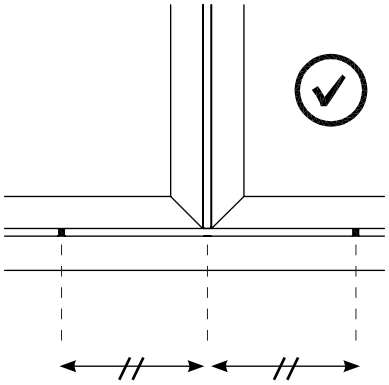
Three-Way Corner Connection (FZCY3/FXCY3) should not happen on or near the seam of the opposing run of glass.

solution 1

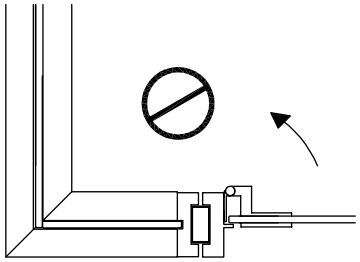


The minimum recommended distance from a seam to the connection is 10".

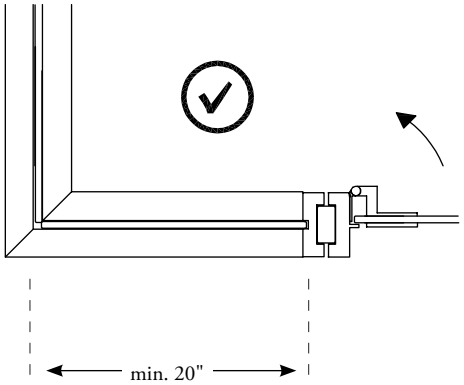
solution 2



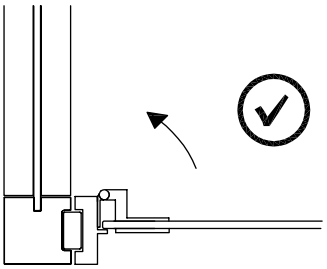
The ideal solution is to place the connection in the center of a face of glass.



A Two-Way 90° Corner Connection (FZCY2/FXCY2) cannot be used to attach a Glass Panel (FZGP/FXGP) to a Door at a 90° angle.



Offset the door from the corner by installing a 20" wide (minimum width) Glass Panel (FZGP/FXGP) between the corner and the door.

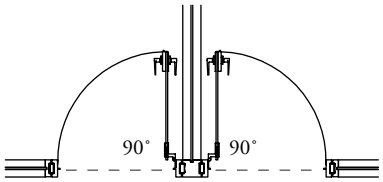


- Install a Two-Way 90° Corner Connection with Door (FZCZ2/FXCZ2)
- Note the difference in the aesthetic. An anodized or painted aluminum extrusion will be visible in the corner.

planning with optos connections (continued)

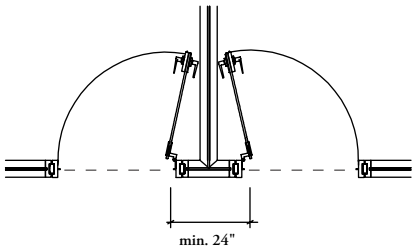
optos to optos

restriction



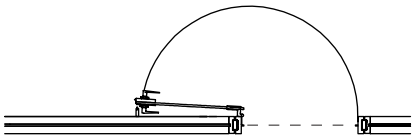
A Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B) at 180˚ is restricted to a maximum door swing of 90˚.

solution 1



Plan with the Three-Way Corner Connection (FZCY3D/FXCY3D) to create a three-way glass connection and separate the doors (minimum 24").

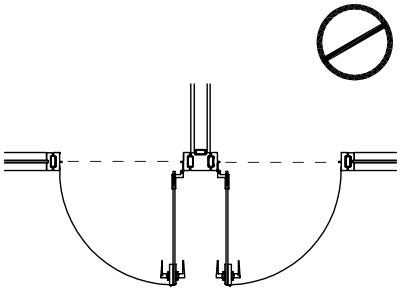
solution 2



Place the door hinge on the opposite side to allow for 180˚ of swing.

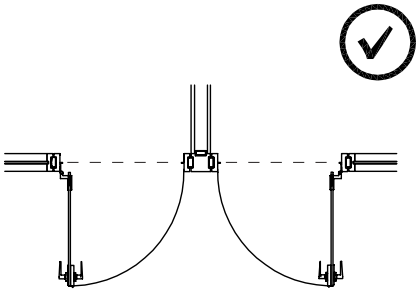
optos to altos

restriction

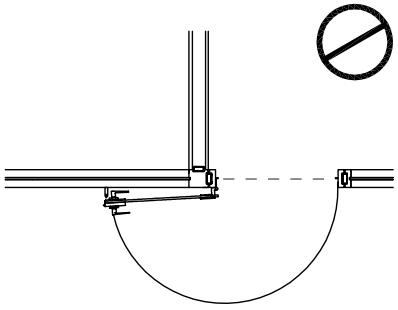


Back to back door openings into corridors or rooms should be avoided.

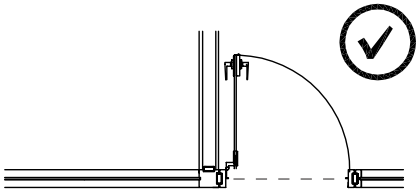
solution 1



Change the swing direction of both doors by placing the hinges on the opposite side.



It is not recommended to use a hinged 180˚ swing door that swings into a hall.



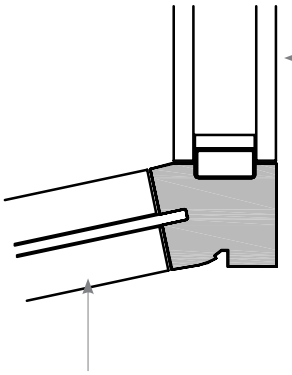
Change the direction of the door swing so that it swings away from the hall and into the room.

planning with optos connections (continued)

The following should be taken into consideration when planning with articulating two-way and three-way corner connections with faceted modules and straight run Optos.

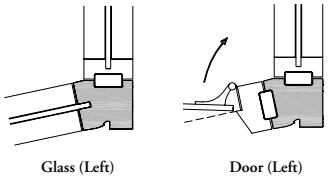
When planning with articulating corner connections the configuration options are based on the storefront

articulating two-way corners



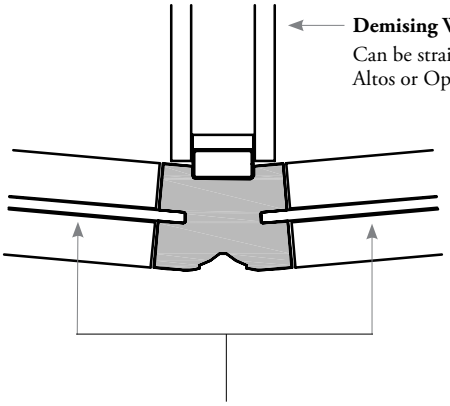
Demising Wall:
Can be straight run Optos, Altos or Optos Clerestory

Storefront:
Connects to a straight run of Optos at an angle



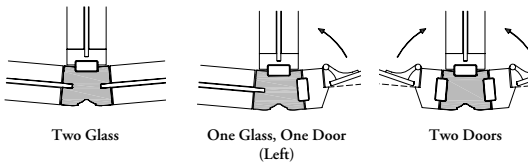
Articulating Two-Way Corner Connection (FZFCF2)
Connects two straight runs of Optos at an angle

articulating three-way corners



Demising Wall:
Can be straight run Optos, Altos or Optos Clerestory

Storefront:
Connects two straight runs of Optos at an angle



Articulating Three-Way Connection (FZFCF3)
Connects a two faceted module or two straight runs of Optos with a straight run of Optos

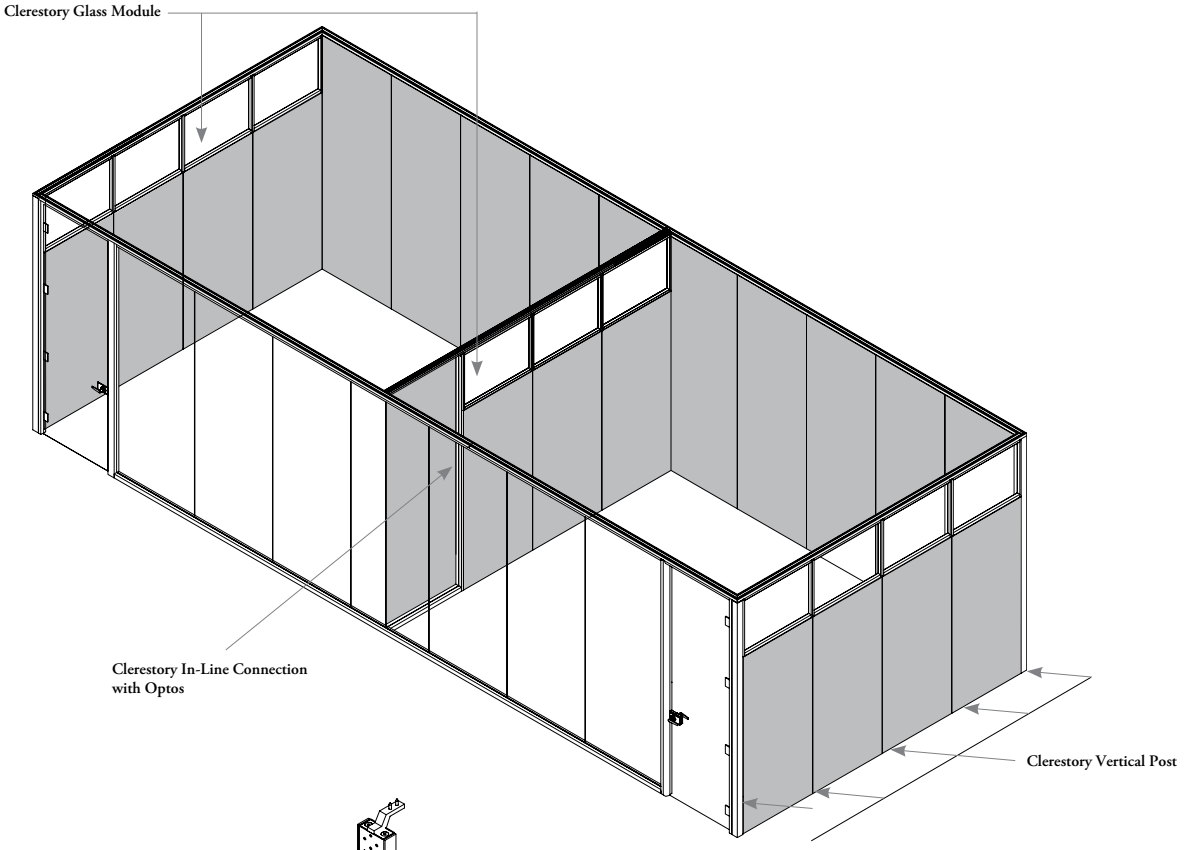
clerestory –
10mm & 12mm

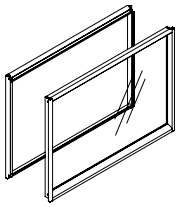
clerestory – 10mm & 12mm

clerestory basics

An Optos clerestory module consists of Optos clerestory above 84" and Altos below

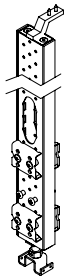
- If a finished wall end is required for an Optos Clerestory module wall, use the Optos (FZFF/FXFF)
- If a filler panel is required with an Optos Clerestory wall, use the Optos Adjustable Wall Start (FZWS/FXWS)





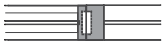
Clerestory Glass Module (FZCGM/FXCGM)

- Is a framed, single centered glass fascia
- Glass is 6mm and available in tempered or laminated
- Tempered glass is available in Clear and Clear Low Iron
- Laminated glass is available in Clear, Frost and Vanceva Specialty Glass
- Frame is available in a Clear Anodized or Painted finish
- Available in 1" height increments of 10"-36" and in 1/8" width increments of 12"-48"
- Textured Glass is not available



Clerestory Vertical Post (FZCFV/FXCFV)

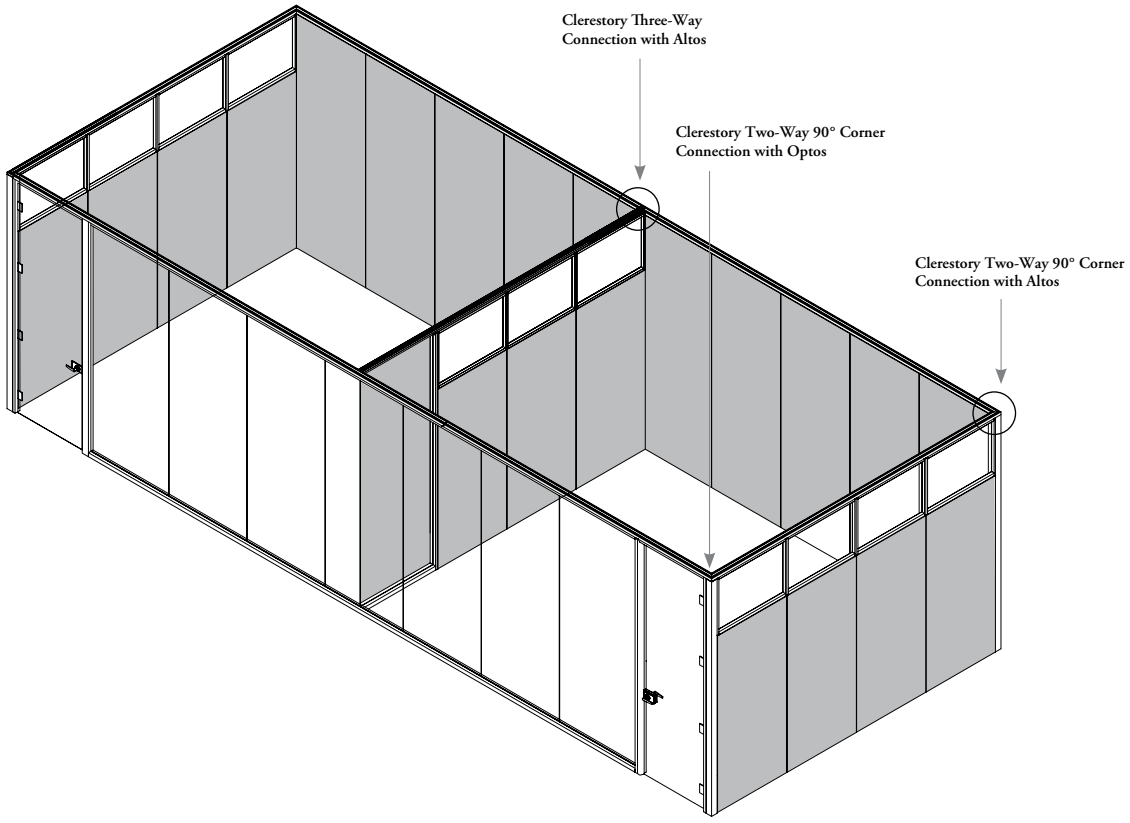
- Is the full height vertical support for walls with Optos clerestory modules.
- Includes enough Fascia connectors and bolts to support horizontal mounting at up to three levels (working wall)
- Is used to connect a clerestory module to another clerestory module or to an Optos wall or to a corner connection.
- Available in 1" height increments of 94"-120"

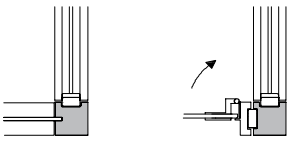


Clerestory In-Line Connection with Optos (FZCCX1/FXCCX1)

- Connects a wall with Optos clerestory in line with a full-height Optos wall
- Available in a Clear Anodized or Painted finish
- Available in 1" height increments of 94"-120"

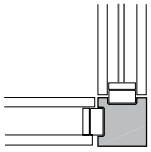
clerestory basics (continued)





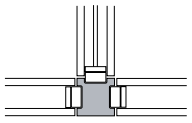
Clerestory Two-Way 90° Corner Connection with Optos (FZCCX2/ FXCCX2)

- Connects an Optos clerestory wall to a full-height Optos wall or Optos door frame at 90°
- Available in a Clear Anodized or Painted finish
- Available in 1" height increments of 94"-120"



Clerestory Two-Way 90° Corner Connection with Altos (FZCCA2/FXCCA2)

- Connects an Optos clerestory wall with an Altos wall at 90°
- Available in a Clear Anodized or Painted finish, Fascia Laminates or Flintwood
- Available in 1" height increments of 94"-120"



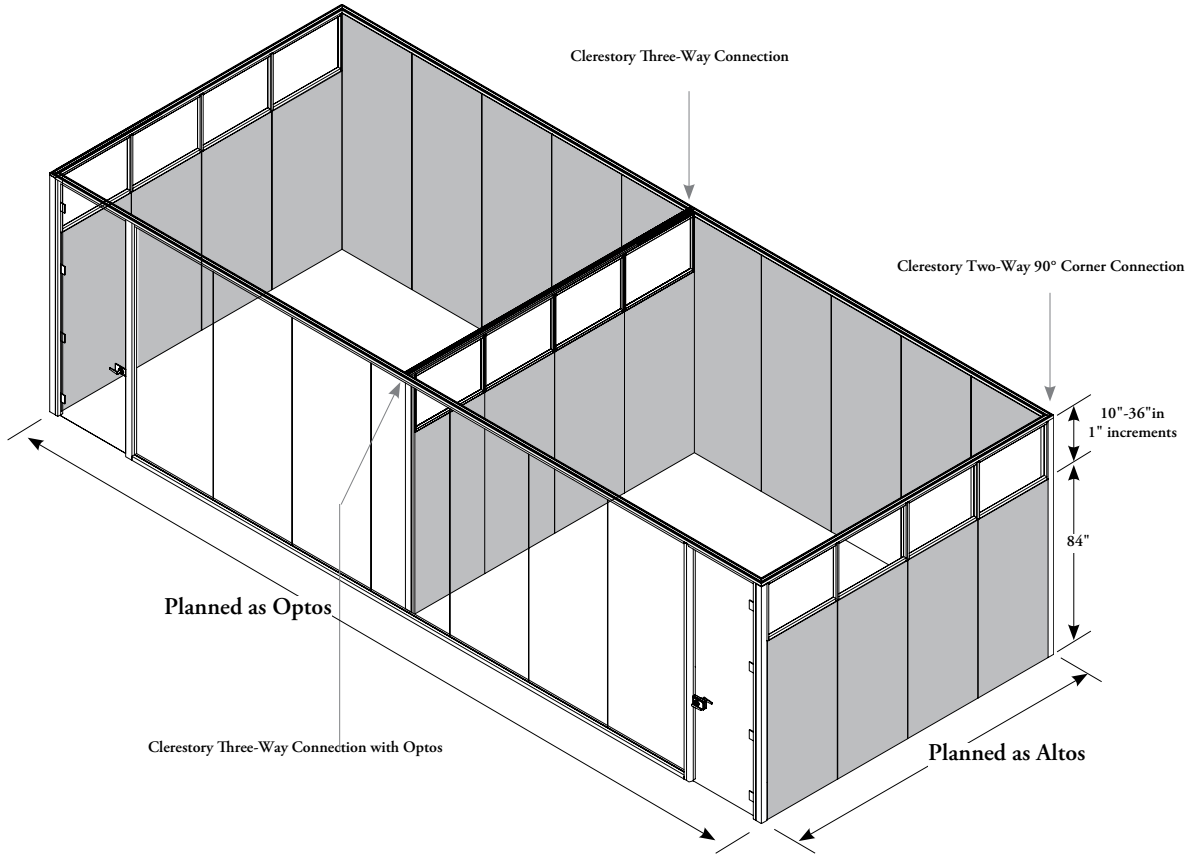
Clerestory Three-Way Connection with Altos (FZCCA3/FXCCA3)

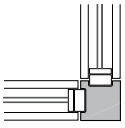
- Connects an Optos clerestory wall with two Altos walls
- Available in a Clear Anodized or Painted finish, Fascia Laminates or Flintwood
- Available in 1" height increments of 94"-120"

clerestory basics (continued)

An Optos clerestory module consists of Optos clerestory above 84" and Altos below.

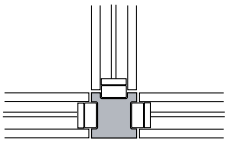
- If a finished wall end is required for an Optos Clerestory module wall, use the Filler Panel (FZFF/FXFF)
- When a filler panel is used, a Adjustable Wall Start (FZWS/FXWS) is required





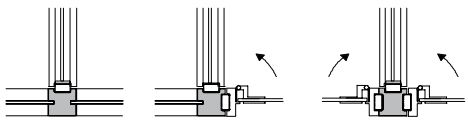
Clerestory Two-Way 90° Corner Connection (FZCCY2/FXCCY2)

- Connects two Optos clerestory walls at 90°
- Available in a Clear Anodized or Painted finish, Fascia Laminates or Flintwood
- Available in 1" height increments of 94"-120"



Clerestory Three-Way Connection (FZCCY3/FXCCY3)

- Connects three Optos clerestory walls
- Available in a Clear Anodized or Painted finish, Fascia Laminates or Flintwood
- Available in 1" height increments of 94"-120"



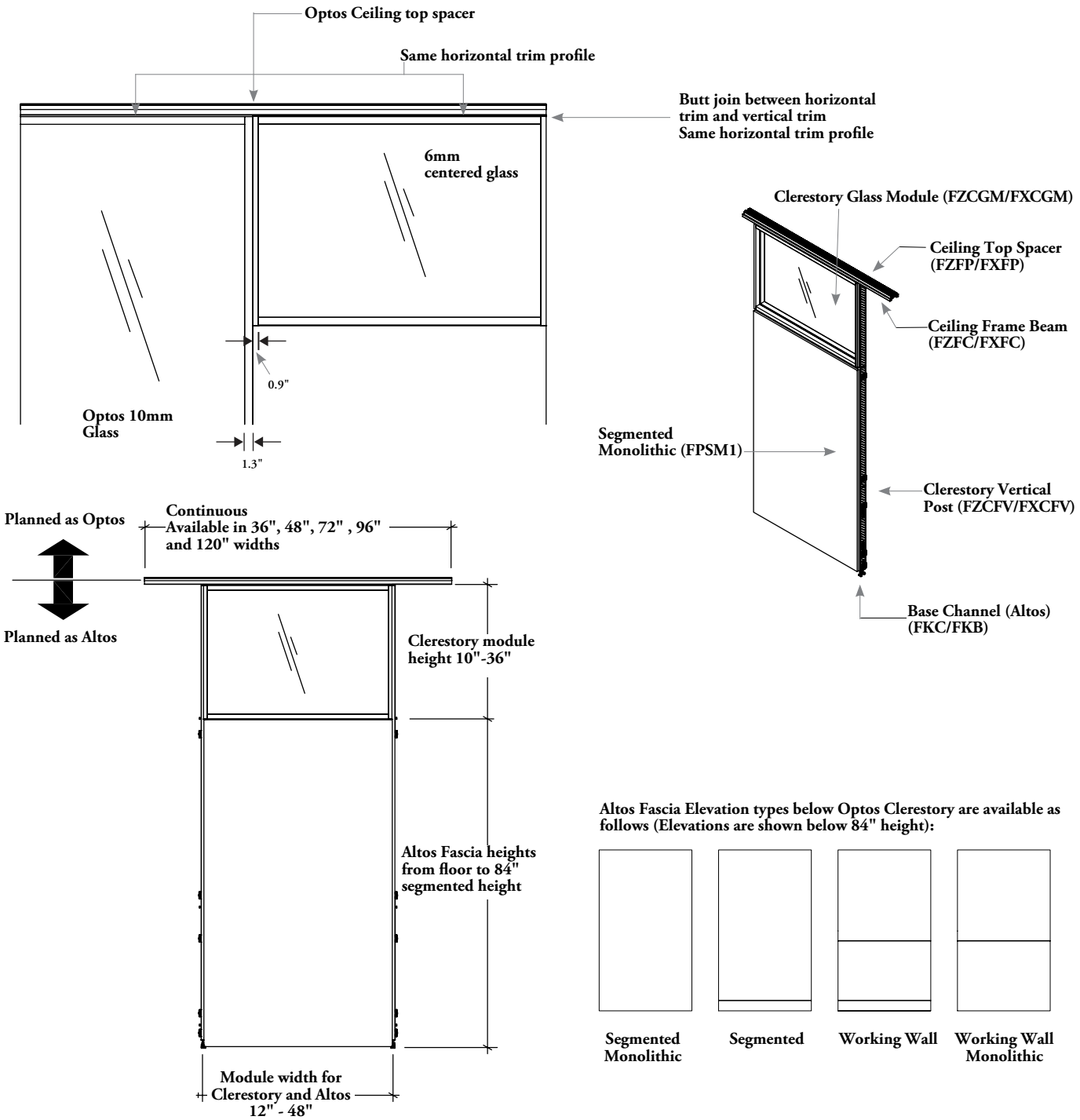
Clerestory Three-Way Connection with Optos (FZCCX3/FXCCX3)

- Connects an Optos clerestory wall with two Optos walls or two Optos door frames
- Available in a Clear Anodized or Painted finish
- Available in 1" height increments of 94"-120"

clerestory basics (continued)

Optos clerestory walls must be used in conjunction with an Optos wall and cannot be used to create enclosures on their own.

- Optos clerestory is used above an 84" high Altos module
- Clerestory modules help to maintain a uniform and continuous look between Optos and Altos wall systems
- Planning with Optos clerestory on demising walls and back walls of private offices maximize light transmission while maintaining functionality and privacy
- Clerestory modules follow Altos planning rules
- Solid Altos Fascias below the Optos clerestory can provide added functionality such as whiteboards, tackboards and the ability to hang furniture



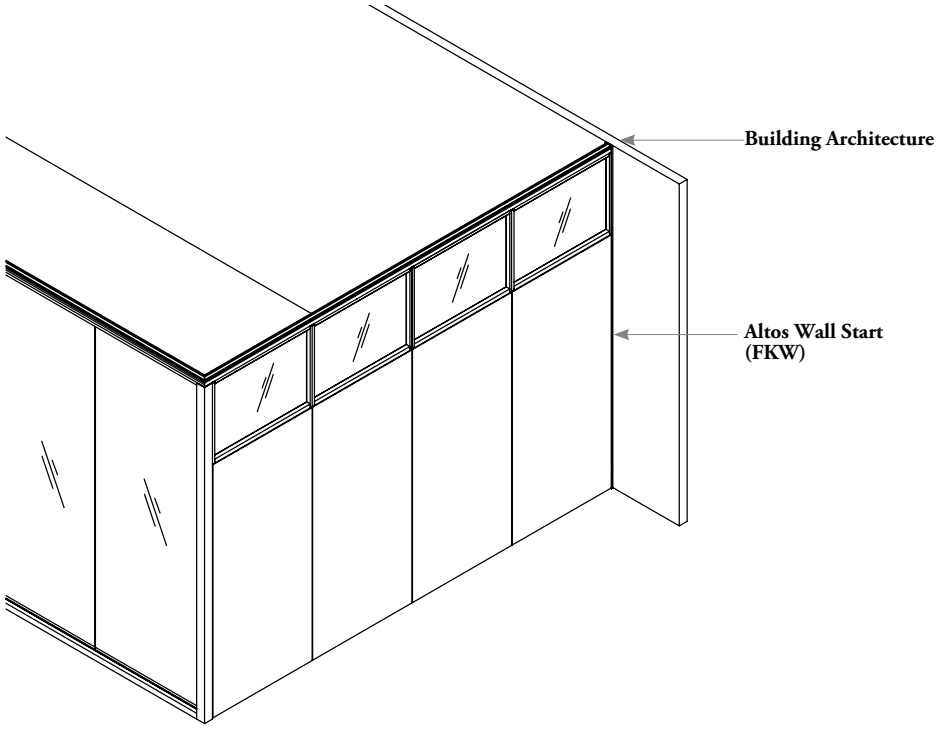
Altos Fascia Elevation types below Optos Clerestory are available as follows (Elevations are shown below 84" height):

Segmented Monolithic | **Segmented** | **Working Wall** | **Working Wall Monolithic**

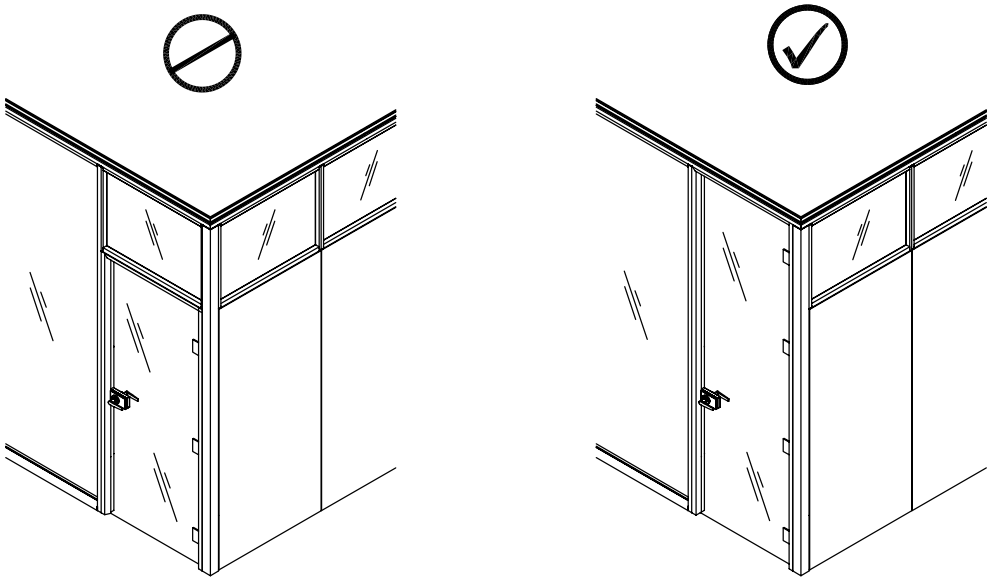
planning with optos clerestory

The following details should be taken into consideration when planning with Optos clerestory.

When an Optos Clerestory Wall connects to an existing building, the Altos Wall Start (FKW) is used.



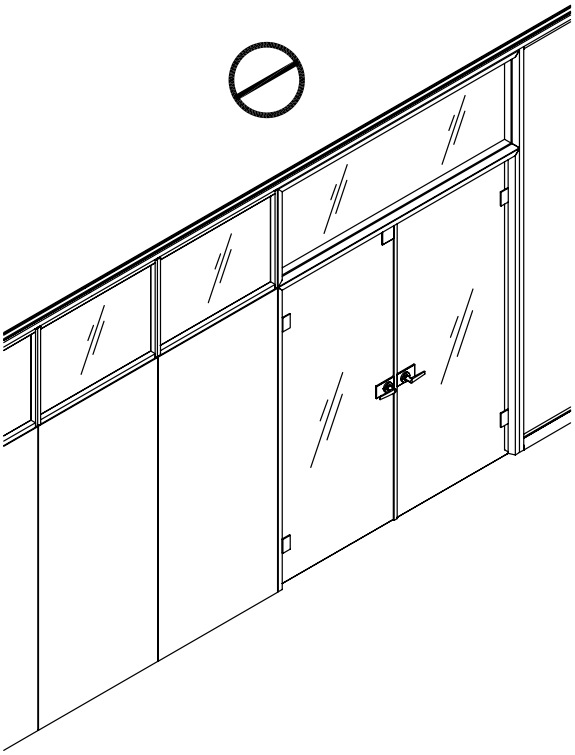
- Optos clerestory cannot be used above Optos or Altos doors
- It can only be used above Altos Fascias



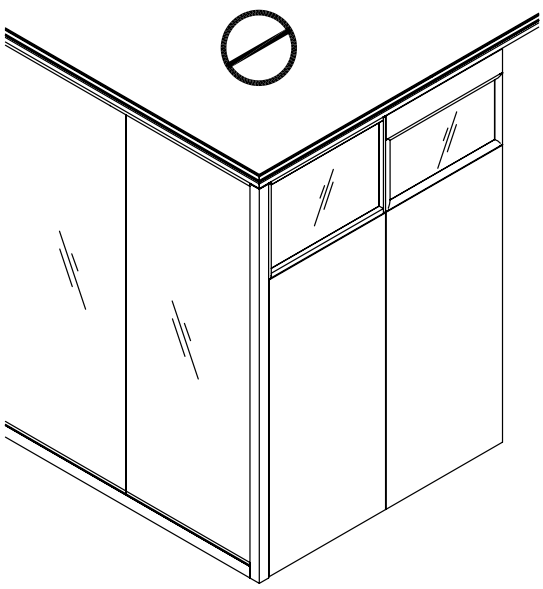
planning with optos clerestory (continued)

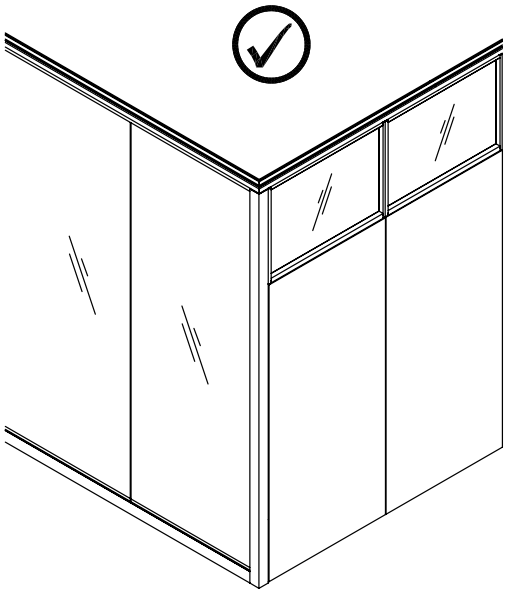
The following details should be taken into consideration when planning with Optos clerestory.

Optos clerestory cannot be used in-line with Optos doors.



- Optos clerestory cannot connect inline with Altos. Inline connections can only be made with Optos or another Optos Clerestory module
- Optos clerestory must be used in conjunction with an Optos wall





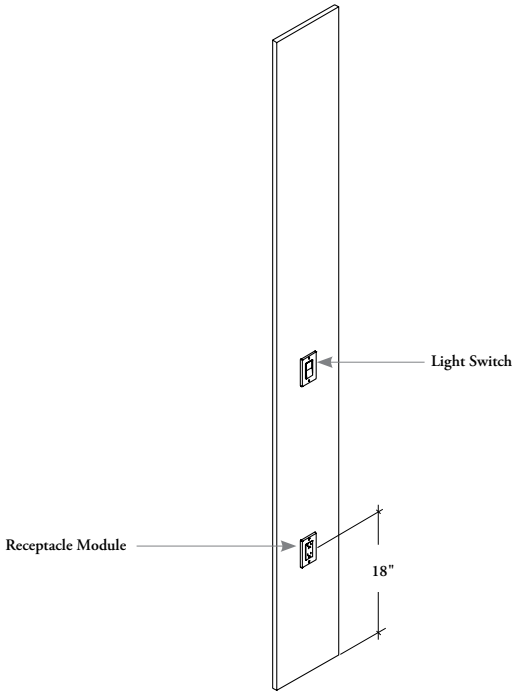
electrics

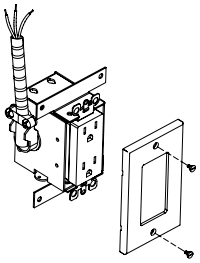
electrics

electrics basics

An Electrical Side Panel is available to accommodate a light switch module or an Electrical Module.

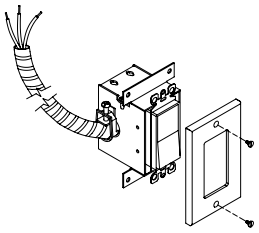
- The Electrical Side Panel (FZS/FXS) is shown with a Receptacle Module and a Light Switch. The Vertical Cut Out (FZS2/FXS2) would be ordered in this application
- The cut out for the Receptacle Module comes pre-cut in the panel and the cut out for the Light Switch would be cut on site





Receptacle Module (ERM)

- Allows power to be used in an Optos Application
- An Electrical Side Panel with Vertical Cut Out (FZS2/FXS2) must be specified to accommodate the Module
- Module will be mounted at 18" from floor



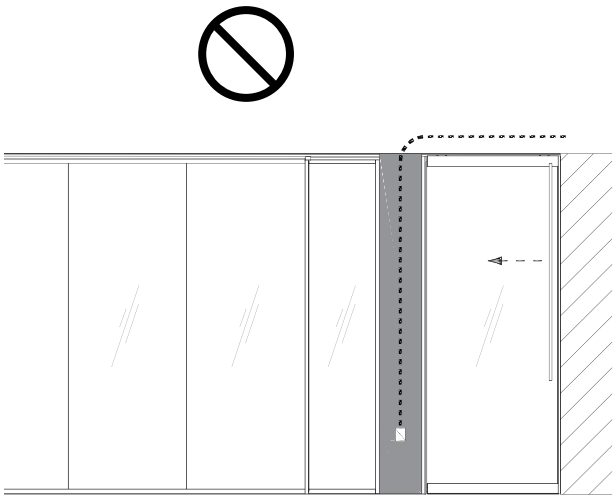
Light Switch (ELS)

- Allows for a light switch in an Optos Application
- An Electrical Side Panel without Vertical Cut Out (FZS1/FXS1) must be specified to accommodate this Module. The opening to accommodate the Switch is to be cut on-site

planning with electrics

The following two conditions should be considered when incorporating the Electrical Side Panel.

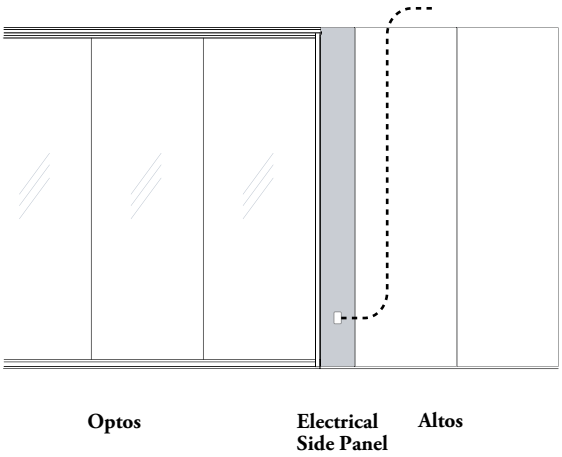
- Electrical Side Panels (FZS/FXS) are used near door openings to house electrical switches and receptacles
- The Electrical side panel must be used under a Ceiling Frame Beam and not under spans of the Sliding Door Rail. The panel should therefore be planned on the side adjacent to a Sliding Door where the rail is not used
- Power can be brought in through the top or bottom channel of the Electrical Side Panel



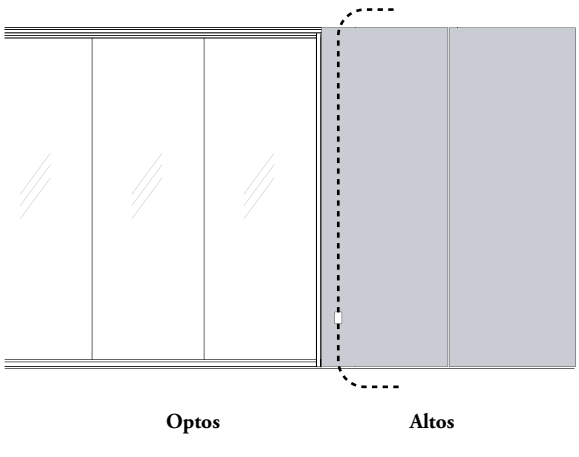
Power cannot be run through the top of the sliding door Rail

The electrical panel should be placed on the opposite side

It is advisable to avoid the use of an Electrical side panel at an in line Optos to Altos transition. Instead use the internal electrical routing capabilities of Altos.



- Power cannot be brought through the Optos vertical and into the Electrical Side Panel
- See Altos application guidelines for bringing power through Altos



Power should be run through the top or bottom of Altos panels

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