

what is optos

what is optos

Optos is a seamless full-height glass wall system with a refined design aesthetic. Optos is available with either 10 or 12mm glass thickness. The wall provides full-height space division with extensive leveling tolerances as well as visual and functional integration to the Altos Wall system. The following outlines the features of Optos Walls.

Frames are available for both glass thicknesses. Codes beginning with 'FZ' denote the 10mm thickness and 'FX' denotes 12mm thickness.



Optos Profile Section

what is optos (continued)

The following outlines the planning styles available in Optos.

storefront planning formats with optos:

Glass partition system shall be capable of spanning lengths up to 26'0" for 10mm Glass and 40'0" for 12mm glass without vertical support and/or perpendicular wall intersection.

straight runs with 90° corners



straight runs with articulating corners



planning possibilities

The following demonstrates the planning possibilities available in Optos.



private office storefront with drywall partition



long store front private offices with drywall partition



optos / altos integration



optos / altos boardroom



optos / building integration



optos boardroom

planning possibilities (continued)



optos with articulating corners / altos / building integration

planning considerations

The following should be considered when planning with Optos.

Step 1:

survey building site

Before starting to plan with Optos, the following important steps should be taken:

• Use a laser level to shoot the whole site and find the high and low spots in the floor and ceiling and determine the minimum floor to ceiling height



- When attaching Optos to a bulkhead, ceiling must be level and flatness should not exceed more than 3/16" over 10'
- The floor should be flat and level, the maximum floor level tolerance is 2" over a single run
- If the ceiling is a suspended grid, the grid must be completely level and flat with a tolerance of 3/16" over 10'
- Direct fastening to the grid is done with ceiling clips
- Consider the location of HVAC ducts and lighting panels on the ceiling before laying out the wall runs
- Plan with Optos to optimize the amount of natural light that will flow into corridors for energy saving and LEED credits



what is optos

planning considerations (continued)

Step 2:

planning wall runs

Optos glass walls are specified as wall runs between two points. There are two types of runs:





Three wall run conditions can occur:



planning considerations (continued)

Step 3:

planning with existing building architecture

Planning storefront corner layouts with a three-way connection allows for adjustments for building tolerances
Planning with filler panels allows for tolerance around the buildings structure, as filler panels are solid and can be modified in width on-site



planning considerations (continued)

Step 4:

planning a typical optos / altos environment



Optos provides a seamless full-height glass enclosure, with integrated door solutions, making it ideal for planning storefront applications



Altos is a solid full-height functional wall that provides visual privacy and support whiteboards, tackboards, worksurfaces and storage





Optos is planned as a continuous run of transparent glass, from one end or join to another. The glass modules are equal in width to optimize seams. Altos is a modular system and the width of a module is specified in the build-up approach to create a wall. There is no designed relationship between Optos glass widths and Altos modules

planning considerations (continued)

Step 5:

planning for furniture and door locations

When planning with Optos, the location of the door with respect to furniture must be considered.



application guide

application guide

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frames – 10mm

F Z W S Adjustable Wall Start

FZFFS Variable Angle Wall Start

FZFE Wall End



frames – 10mm (continued)

FZT Installation Tools



frames – 12mm

F X W S Adjustable Wall Start

F X F F S Variable Angle Wall Start

FXFP Ceiling Top Spacer



fascias – 10mm



FZGK Glass Assembly Hardware Kit FZAK Activator Kit



FZS Electrical Side Panel



fascias – 12mm

FXGP Glass Panel

F X G K Glass Assembly Hardware Kit F X S Electrical Side Panel



doors



doors (continued)



doors (continued)



corners & connections – 10mm







corners & connections – 10mm (continued)



corners & connections – 10mm (continued)



corners & connections – 10mm (continued)

FZCW2 Two-Way Connection with Drywall

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







FZCW3E Three-Way Connection with Drywall for Barn Door Rails



corners & connections – 12mm



corners & connections – 12mm (continued)



Two Doors

One Glass, One Door

Glass

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°











corners & connections – 12mm (continued)



clerestory – 10mm



FZCFV Clerestory Vertical Post



clerestory – 10mm (continued)



clerestory – 12mm

FXCGM Clerestory Glass Module

FXCFV Clerestory Vertical Post





clerestory – 12mm (continued)



electrics

E R M Receptacle Module

ELS Light Switch




frames – 10mm & 12mm

frames – 10mm & 12mm

FRAME BAS	ICS			 	 	 	40
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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"





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)



Also available but not shown below:



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



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 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 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



planning with trims

The following trim details are typical of Optos transitions.



fascias – 10mm & 12mm

fascias – 10mm & 12mm

FASCIA BASICS
PLANNING WITH GLASS MODULES
PLANNING WITH ELECTRICAL SIDE PANEL

fascia basics

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



For 10mm Glass, the inline butt joint is joined with 2mm x 6mm acrylic tape, available in the Glass Assembly Hardware Kit (FZGK)

For 12mm Glass the inline butt joint is joined with 2mm x 8mm acrylic tape, available in the Glass Assembly Hardware Kit (FXGK)



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)

86" - 120"

- Two solid fascias used to house light switches or receptacle modules
- Available in two styles:
 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
BUILDING UP A COMPLETE DOOR MODULE
SWING DOOR BASICS
SLIDING DOOR BASICS
HINGED DOOR DETAILS
PIVOT DOOR DETAILS
SLIDING DOOR DETAILS
JAMB BASICS
RAIL BASICS
PLANNING WITH JAMBS & RAILS
PLANNING WITH DOORS
PLANNING WITH SWING DOORS & FRAMES
PLANNING WITH DOOR STOPS
PLANNING WITH SINGLE SLIDING DOORS
PLANNING WITH DOUBLE SLIDING DOORS
HANDLE BASICS
LEVER DETAILS
PULL DETAILS
HANDLE COMPATIBILITY

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





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 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.



86"-120" in

1" increments

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
- Magnetic Catch to be used when ordered with floor, ceiling and linear pull handles
- Frame Component Finishes: Clear Anodized or Painted
- Includes Door Stop
- Hinges open up to 180° (actual 176° with door stop).

Solid Hinged Door Leaf with Glass Insert Single (FZSNHL) 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
- Magnetic Catch standard when using floor, ceiling and linear pull handles
- 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)

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°

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
- Magnetic Catch standard when using floor, ceiling and linear pull handles
- Door can be specified with closer or magnetic catch, not both

Door Nominal Width	Door and Doorway Clear Width when Door Opened 180°	Door and Doorway Clear Width when Door Opened 90°
40"	36"	34-1/4"
42"	38"	36-1/4"

Door Nominal Width	Door and Doorway Clear Width when Door Opened 180°	Door and Doorway Clear Width when Door Opened 90°
40"	36-1/4"	34-1/2"
42"	38-1/4"	36-1/2"

Door Nominal Width	Door and Doorway Clear Width when Double Door Opened 180°	Door and Doorway Clear Width when Active Door Opened 180°	Door and Doorway Clear Width when Active Door Opened 90°
72"	68"	31-1/2"	29-3/4"
80"	76"	35-1/2"	33-3/4"

Door Nominal Width	Door and Doorway Clear Width when Door Opened 180°	Door and Doorway Clear Width when Door Opened 90°
40"	36-1/4"	35-1/2"
42"	38-1/4"	37-1/2"



sliding door basics

Four sliding door styles are available for Optos applications



28-1/8"

29-1/8"

32-1/8"

33-1/8"

hinged door details

The following outlines the features of hinged doors.

single hinged door





• Select doors when using floor, ceiling and linear pull handles

application guide

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.



• 10" high stainless steel (ADA)

The following outlines the features of pivot doors.

single pivot door



- Magnetic Catch
- Magnetic catch offers the experience of a latch on select swing doors using floor and ceiling pulls.
- Select doors when using floor, ceiling and linear pull handles
- Can not be specified with door closer/ door stay

sliding door details

The following outlines the features of sliding doors.

single sliding door



application guide

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) and Solid with Glass Insert Door Leaf (FZSNHL)
- 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 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



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



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





Sliding Door Extended Rail Single (FZSESR)

- Rail for all the sliding door leaves single: Glass (FZSGSL), Solid (FZSSL), 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

application guide

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	FZHSX FZSCP FZSFP FZSLP	
	FZSSHL FZSNHL	FZSSHF	FZHSX FZHSL FZSCP FZSFP FZSLP	
Double	FZDGHL	FZDGHF	FZHSX	

Pivot Door

	Leaf	Jamb	Handle
Single	FZSGPL	FZSGPF	FZHSX FZHSL FZSCP FZSFP

		Sliding Door		
	Leaf	Jamb	Rail	Handle
	FZSGSL	FZSGSJ	FZSESR FZSFSR	FZSCP
Single	Single FZSSSL FZSNSL	FZSSSJ		FZSFP FZSLP
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





Legend		
٩	Active locking door applicable	

application guide

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

Optos Centerline to vertical Centerline of post door frame

Overall length according to Altos Centerline module length





Vertical

Floor Channel

planning with swing doors & frames (continued)

ceiling frame beam



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



Base Frame

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 90°, the Doorstop has an option for floor mounting.



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.



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.



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.



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 ALX Series (FZHSX)



Door Handle Schlage L Series (FZHSL)



Door Handle Ceiling Pull (FZSCP)



Control Key (FXKK) • Used to remove or install an interchangeable core



Door Handle Floor Pull (FZSFP)

Door Handle Linear Pull (FZSLP)

lever details

	Levers			
Series Name	ALX Series L Series			
Product Code	Door Handle Schlage ALX Series (FZHSX)	Door Handle Schlage L Series (FZHSL)		
Lever Type				
Schlage's name	Athens Rhodes	07 06		
Teknion's name	Type A Type R	Туре 07 Туре 06		
Lock Type	Cylindrical Lock	Mortise Lock		
Lock Function	Push button lock - ADA Std on ALX series	Easy turn - ADA Schlage L583-363		
Height AFF	39-3/4"	37-1/2"		
Keying	Conventional, key in lock (KIL) 6 pin	Conventional Mortise 6 pin		
Handle Finish	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 \$123 Keyway, The Everest "\$123" key is backwards compatible to the Everest "C123" keyway lock cylinders. However, the "\$123" 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 (FZSC	CP)	Door Handle		
		e E				
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	39-3/4" from finished floor to bottom of handle	39-3/4" from finished floor to bottom of handle	39-3/4" 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

pull details (continued)

	Pulls				
Series Name	Linear Series				
Product Code	Door Handle Line	ear Pull (FZSLP)			
	1				
Handle Type	(F), (G) Perpendicular, Non-Locking	(H), (I) Angular, Non-Locking			
Lock Function					
Visual characteristics	7/8" x 9/16" Rounded rectangular aluminum tube, machined aluminum base 90° to door leaf	7/8" x 9/16" Rounded rectangular aluminum tube, machined aluminum base 35° to door leaf			
Pull Finish options	Clear Anodized aluminum or painted aluminum	Clear Anodized aluminum or painted aluminum			
Pull Length	13", 24"	13", 24"			
Height AFF	34 5/8" from finished floor to bottom of pull	34 5/8" from finished floor to bottom of pull			
Keying	No Lock	No Lock			
Retrofitting between Locking & Non-Locking	n/a	n/a			
ADA Code compliance	Yes	Yes			

• 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							
		Le	evers		Pulls				
		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	
	Glass Hinged Door Leaf Single (FZSGHL)	\checkmark		\checkmark			✓*	✓*	
Hingod	Solid Hinged Door Leaf Single (FZSSHL)	\checkmark	\checkmark	\checkmark			\checkmark^*	✓*	
Doors	Solid Hinged Door Leaf with Glass Insert Single (FZSNHL)	\checkmark	\checkmark	\checkmark			✓*	✓*	
	Glass Hinged Door Leaf Double (FZDGHL)	\checkmark							
Pivot Doors	Glass Pivot Door Leaf Single (FZSGPL)	\checkmark	\checkmark	\checkmark			✓*	\checkmark^*	
Sliding Doors	Glass Sliding Door Leaf Single (FZSGSL)			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	Solid Sliding Door Leaf with Glass Insert Single (FZSNSL)			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	Solid Sliding Door Leaf Single (FZSSSL)			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	Glass Sliding Door Leaf Double (FZDGSL)			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

* Not available when a kickplate option is specified.

application guide

handle compatibility (continued)

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

		Handles		
		Pulls		
		Linear Series		
		Door Handle Li	near Pull (FZSLP)	
		(F), (G) Perpendicular, Non-Locking	(H), (I) Angular, Non-Locking	
Hinged Doors	Glass Hinged Door Leaf Single (FZSGHL)	\checkmark	\checkmark	
	Solid Hinged Door Leaf Single (FZSSHL)	\checkmark	\checkmark	
	Solid Hinged Door Leaf with Glass Insert Single (FZSNHL)	\checkmark	\checkmark	
	Glass Hinged Door Leaf Double (FZDGHL)			
Pivot Doors	Glass Pivot Door Leaf Single (FZSGPL)	\checkmark	\checkmark	
Sliding Doors	Glass Sliding Door Leaf Single (FZSGSL)	\checkmark	\checkmark	
	Solid Sliding Door Leaf with Glass Insert Single (FZSNSL)	\checkmark	\checkmark	
	Solid Sliding Door Leaf Single (FZSSSL)	\checkmark	\checkmark	
	Glass Sliding Door Leaf Double (FZDGSL)	\checkmark	\checkmark	

corners & connections – 10mm & 12mm

corners & connections – 10mm & 12mm

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OPTOS TO DRYWALL CORNER CONNECTION BASICS.....95

PLANNING WITH OPTOS CONNECTIONS101

application guide

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



optos to optos corner connection basics (continued)

articulating two-way and three-way connections



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.





Centered



Two-Way 90° Corner Connection with Door (FŹCZ2/FXCZ2)

Joins a section of glass with a door at 90°

with One Door (FZCZ3F/FXCZ3F)

· Joins two pieces of glass with one door

• Door location can be specified left, right or

Three-Way Connection

centered

• Door location can be specified left or right



What's Included $1 \mbox{ outside } 90^\circ$ trim piece, $1 \mbox{ inside trim piece and }$ connection hardware

What's Excluded 1 vertical post



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)

What's Included

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



· Joins one piece of glass and two doors • Available in one configuration:

Two doors at 180° (B)

(FZCY2É/FXCY2E)

at a set distance apart



What's Excluded 2 vertical posts



What's Excluded Base channel assembly, ceiling spacer, glass



Ends (E) or one Sliding Door End and one Sliding Door Start (S)

Two-Way Connection for Barn Door Rail

• 90° Connection for Sliding Door Rail Ends

• Available in two configurations, two Sliding

Door Ends (shown) or two Sliding Door



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)



optos to drywall corner connection basics (continued)



application guide

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



• 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



optos to altos corner connection basics (continued)

articulating two-way and three-way connections



• 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



planning with optos connections (continued)

optos to optos



optos to altos



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



Articulating Two-Way Corner Connection (FZFCF2)

Connects two straight runs of Optos at an angle

Door (Left)

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

articulating three-way corners



Optos at an angle

clerestory – 10mm & 12mm

clerestory – 10mm & 12mm

PLANNING WITH	OPTOS	CLERESTORY	 	. 110
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application guide

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)



- 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

- 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"

- 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 fullheight 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"

application guide

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


application guide

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

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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

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

• See Altos application guidelines for bringing power through Altos

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