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 thicknesses. Codes beginning with ‘FZ’ denote the 10mm thickness and ‘FX’ denotes 12mm thickness. Currently, the only two doors available in 12mm are Framed Pivot Doors (FXDP and FXNP).

Altos Integration
• Solid Fascias
• Visual / Acoustic Privacy

Optos Clerestory Integration
Framed 6mm single centered glass fascia integrates Optos storefronts with Altos demising walls

Full-height Expression 86”-120”

Two-Way Glass-to-Glass Corner

Optos / Altos Two-Way Corner

Door Modules

Clear Anodized or Painted Trim

Clear Anodized or Painted Horizontal Trim

Three-Way Connection (off-module), glass-to-glass

Seamless Expression
10mm or 12mm glass butt joined with double sided adhesive tape.
The following outlines the planning styles available in Optos.

storefront planning formats with optos:

straight runs with 90° corners

straight runs with articulating corners
The following demonstrates the planning possibilities available in Optos.
planning possibilities (continued)

optos with articulating corners / altos / building integration
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

![Diagram of planning considerations](image)
Step 2:  
planning wall runs

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

1. runs which end
Termination points, ending at:
- A Finished wall end
- B Wall start from building
- C Filler panel from a building

2. runs which join
Termination points, ending at:
- D Optos to Optos corners two-way, three-way or four-way
- E Optos to Altos corners two-way, three-way, four-way or Inlines
- F Optos Door Modules

Three wall run conditions can occur:

<table>
<thead>
<tr>
<th>end to end</th>
<th>end to joint</th>
<th>joint to joint</th>
</tr>
</thead>
</table>

...
Step 3:
planning with existing building architecture

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

Diagram:
- Three-Way Corner Connection (FZCY3), off-module
- Filler Panel (FZFF)
- Glass-to-Glass transparent joint
- Filler Panel is modified on-site to blend with existing building architecture
Step 4: planning a typical optos / altos environment

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

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

3. 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.
Step 5:
planning for furniture and door locations

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

Furniture is typically planned against the solid walls and not the glass.

Traffic flow and furniture should be taken into consideration when planning Doorways in conferencing spaces.

Space behind a swing door is unusable, therefore, planning with barn doors can provide entry without compromising space. For central door locations barn doors may provide for better space planning.

Hinged or Barn doors can be placed at wall corners or central to the room depending on furniture clearance required.
application guide
application guide

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frames – 10mm

- FZWS Adjustable Wall Start
- FZFS Variable Angle Wall Start
- FZFE Wall End

- FZFP Ceiling Top Spacer
- FZFC Ceiling Frame Beam
- FZFB Base Frame & Channel Assembly

- FZFK Frame Splice Kits
- FZFV Vertical Post
- FZFTV Vertical Trim

- FZFT Horizontal Trim
- FZFF Filler Panel
- FZDBRP Single Barn Door Fixed Rail Kit
frames – 10mm (continued)

FZDBJP  Single Glass Barn Door Jamb Kit for Fixed Rail
FZDBRR  Single Barn Door Extended Rail Kit
FZDBJR  Single Glass Barn Door Jamb Kit for Extended Rail

FZDLRP  Double Barn Door Fixed Rail Kit
FZDLJP  Double Barn Door Jamb Kit for Fixed Rail
FZDLRR  Double Barn Door Extended Rail Kit

FZNHS  Solid Hinged Door Frame – Low Profile
FZDHS  Solid Hinged Door Solid Frame Kit – Low Profile
FZNJS  Glass Hinged Door Frame – Low Profile

FZNES  Glass Hinged Double Door Frame – Low Profile
FZDES  Glass Hinged Double Door Solid Frame Kit – Low Profile
FZNJS  Glass Hinged Door Frame – Low Profile
## Frames – 10mm (continued)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FZDJS</td>
<td>Glass Hinged Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>FZNPS</td>
<td>Glass Framed Pivot Door Frame – Low Profile</td>
</tr>
<tr>
<td>FZDPS</td>
<td>Glass Pivot Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>FZP</td>
<td>Ceiling Supports</td>
</tr>
<tr>
<td>FZT</td>
<td>Installation Tools</td>
</tr>
</tbody>
</table>

![Diagram of FZDJS frame](image1)

![Diagram of FZNPS frame](image2)

![Diagram of FZDPS frame](image3)
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
doors – 10mm

FZDB  Glass Barn Door
FZDL  Double Glass Barn Door
FZNJ  Glass Hinged Door

FZDJ  Hinged Glass Door
FZNE  Glass Hinged Double Door
FZDE  Double Hinged Glass Door

FZNS  Solid Hinged Door
FZDS  Solid Hinged Door – Low Profile
FZNP  Glass Framed Pivot Door

FZDP  Glass Pivot Door
corners & connections – 10mm

**FZCY2** Two-Way 90° Corner Connection

![Two-Way 90° Corner Connection](image)

Door End or Glass, Door End or Glass

**FZCY2E** Two-Way Connection for Barn Door Rail

![Two-Way Connection for Barn Door Rail](image)

Door Start, Door End (left or right handed)

**FZFCF2** Two-Way Articulating Corner Connection

![Two-Way Articulating Corner Connection](image)

Glass (Left)  Door (Left)

**FZCY3** Three-Way Corner Connection Between Doors

![Three-Way Corner Connection Between Doors](image)

**FZCY3D** Three-Way Corner Connection Between Doors

![Three-Way Corner Connection Between Doors](image)

Door End or Glass, Door End or Glass

**FZCY3E** Three-Way Connection for Barn Door Rails

![Three-Way Connection for Barn Door Rails](image)

Door Start, Door End (left or right handed)

**FZFCF3** Three-Way Articulating Corner Connection

![Three-Way Articulating Corner Connection](image)

Two Glass  One Glass; One Door (Right)

Optos to Optos

*One Glass; One Door (Left)*

Two Doors
corners & connections – 10mm (continued)

**FZCZ2** Two-Way 90° Corner Connection with Door

**FZCZ3F** Three-Way Connection with One Door

**FZCZ3B** Three-Way Connection with Two Doors

**FZCA1** 180° Connection with Altos

**FZCA2** Two-Way 90° Connection with Altos

**FZCA2F** 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

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

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

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

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

Optos to Altos
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)

**FZCW2** Two-Way Connection with Drywall

![Two-Way Connection with Drywall Diagram]

**FZCW2F** Two-Way Connection with Drywall for Barn Door Rail End

![Two-Way Connection with Drywall for Barn Door Rail End Diagram]

**FZCW3** Three-Way Connection with Drywall

![Three-Way Connection with Drywall Diagram]

**FZCW3E** Three-Way Connection with Drywall for Barn Door Rails

![Three-Way Connection with Drywall for Barn Door Rails Diagram]

Optos to Drywall

Door End, Glass

Door Start, Door End
clerestory – 10mm

FZCGM  Clerestory Glass Module

FZCFV  Clerestory Vertical Post

FZC CX1  Clerestory In-Line Connection with Optos

FZC CF2  Clerestory Two-Way Connection for Barn Door Rail End

FZC CX2  Clerestory Two-Way 90° Corner Connection with Optos

FZCCA2  Clerestory Two-Way 90° Corner Connection with Altos

FZCCY2  Clerestory Two-Way 90° Corner Connection
clerestory – 10mm (continued)

FZCX3  Clerestory Three-Way Connection with Optos

FZCY3  Clerestory Three-Way Connection

FZCA3  Clerestory Three-Way Connection with Altos

Three-Way Connections
frames – 12mm

- F X W S  Adjustable Wall Start
- F X 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 D B R P  Single Barn Door Fixed Rail Kit
- F X D B J P  Single Glass Barn Door Jamb Kit for Fixed Rail
frames – 12mm (continued)

- FXDBR Single Barn Door Extended Rail Kit
- FXDBR Single Glass Barn Door Jamb Kit for Extended Rail
- FXDLRP Double Barn Door Fixed Rail Kit
- FXDLJP Double Barn Door Jamb Kit for Fixed Rail
- FXDLRR Double Barn Door Extended Rail Kit
- FXDLJR Double Barn Door Jamb Kit for Extended Rail
- FXDHS Solid Hinged Door Solid Frame Kit
- FXDJS Glass Hinged Door Solid Frame Kit
- FXNPS Glass Framed Pivot Door Frame
- FXDPS Glass Pivot Door Solid Frame Kit
- FXP Ceiling Supports
## fascias – 12mm

<table>
<thead>
<tr>
<th>FXG P</th>
<th>FXG K</th>
<th>FXS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Panel</td>
<td>Glass Assembly Hardware Kit</td>
<td>Electrical Side Panel</td>
</tr>
</tbody>
</table>

![Diagram of fascias - 12mm](image-url)
FXNP  Glass Framed Pivot Door  FXDP  Glass Pivot Door
corners & connections – 12mm

FXCY2 Two-Way 90° Corner Connection
FXCY2E Two-Way Connection for Barn Door Rail

FXCY3 Three-Way Corner Connection
FXCY3D Three-Way Corner Connection Between Doors

FXCY3E Three-Way Connection for Barn Door Rails
FXCZ2 Two-Way 90° Corner Connection with Door

FXCZ3F Three-Way Connection with One Door

Optos to Optos

Center Left Right
corners & connections – 12mm (continued)

FXCZ3B  Three-Way Connection with Two Doors

FXCA1  180° Connection with Altos

FXCA2  Two-Way 90° Connection with Altos

FXCA2F  Two-Way Connection for Barn Door Rail End with Altos

FXCA3B  Three-Way Connection with Altos – Two Optos at 180°

FXCA3A  Three-Way Connection with Altos – Two Optos at 90°

FXCA3B  Three-Way Connection with Altos – Two Optos at 180°
corners & connections – 12mm (continued)

<table>
<thead>
<tr>
<th>FXCA3C</th>
<th>Three-Way Connection with Altos – Two Altos at 90°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>Door</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FXCA3D</th>
<th>Three-Way Connection with Altos – Two Altos at 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>Door</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FXCA3E</th>
<th>Three-Way Connection with Altos for Barn Door Rails</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door End/Glass, Door End or Glass</td>
<td>Door Start, Door End</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FXCA4B</th>
<th>Four-Way Connection with Altos – Two Optos at 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>Door</td>
</tr>
</tbody>
</table>

Optos to Altos

<table>
<thead>
<tr>
<th>Two Doors</th>
</tr>
</thead>
</table>
corners & connections – 12mm (continued)

FXCW2 Two-Way Connection with Drywall

FXCW3 Three-Way Connection with Drywall

FXCW3E Three-Way Connection with Drywall for Barn Door Rails
<table>
<thead>
<tr>
<th>In-Line Connections</th>
<th>Two-Way Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXCGM Clerestory Glass Module</td>
<td>FXCFV Clerestory Vertical Post</td>
</tr>
<tr>
<td>FXCCX1 Clerestory In-Line Connection with Optos</td>
<td></td>
</tr>
<tr>
<td>FXCC2F Clerestory Two-Way Connection for Barn Door Rail End</td>
<td>FXCC2 Clerestory Two-Way 90° Corner Connection with Optos</td>
</tr>
<tr>
<td>FXCCA2 Clerestory Two-Way 90° Corner Connection with Altos</td>
<td>FXCCY2 Clerestory Two-Way 90° Corner Connection</td>
</tr>
</tbody>
</table>

**clerestory – 12mm**
clerestory – 12mm (continued)

FXCCX3  Clerestory Three-Way Connection with Optos
FXCY3   Clerestory Three-Way Connection

FXCCA3  Clerestory Three-Way Connection with Altos
accessories & electrics

ERM Receptacle Module  ELS Light Switch  FXKK Control Key
frames – 10mm & 12mm
frames – 10mm & 12mm

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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”.

**Frame Basics**

**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).
**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/EXP)**
To estimate quantities, allow for one Ceiling Clip per tile.

**Ceiling Clip**

**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’.

**Also available but not shown below:**
The following should be considered when planning with Ceiling Clips.

<table>
<thead>
<tr>
<th>Ceiling Profile</th>
<th>Ceiling Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image 1]</td>
<td>FXP6 / FZP6</td>
</tr>
<tr>
<td>![Image 2]</td>
<td>FXP3 / FZP3</td>
</tr>
<tr>
<td>![Image 3]</td>
<td>FXP2 / FZP2</td>
</tr>
<tr>
<td>![Image 4]</td>
<td>FXP6 / FZP6</td>
</tr>
</tbody>
</table>

- 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)

<table>
<thead>
<tr>
<th>Ceiling Profile</th>
<th>Ceiling Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Ceiling Profile" /></td>
<td>FXP4 / FZP4</td>
</tr>
<tr>
<td><img src="image2" alt="Ceiling Profile" /></td>
<td>FXP4 / FZP4</td>
</tr>
<tr>
<td><img src="image3" alt="Ceiling Profile" /></td>
<td>FXP5 / FZP5</td>
</tr>
<tr>
<td><img src="image4" alt="Ceiling Profile" /></td>
<td>FXP5 / FZP5</td>
</tr>
</tbody>
</table>

- 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
The following outlines the features of Optos Frames.

- **Incremental Top Spacer**
- **Trim Cup**

Current Glass offering:
- 10 mm Tempered and Laminate (FZ) or 12mm Tempered and Laminate (FX)

New Micro Leveler
New Multi Stage Leveler

Trims: Clear Anodized or Painted
New Base Channel: Clear Anodized or Painted

Section of Optos Profile at top and bottom:

- Leveling range 0.75" to 1.3" (max. only)
- 5/8" nominal floor to base trim height
- 5/8" nominal ceiling to ceiling spacer height

- 1-5/8" (-1/4" - +1-3/4")
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.
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

![Ceiling Frame Beam](image)

Compressed -0.25"  Nominal  Extended +0.25"  Extended +0.50"

base leveling system

![Level Glass](image)

Multi stage leveler (levels beam)  Beam  Level Glass  Channel

Compressed -0.25"  Compressed -0.15"  Nominal  Extended +1.38"
The following outlines the features of Optos Wall Starts.
Door Frames are independent frames that cover the vertical and horizontal structural elements.

- The door is ordered separately, see Door section for details
- Check local code requirements, as in some jurisdictions the use of barn doors limits room occupancy to a maximum of 10 people
- 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

**Glass Hinged Double Door Solid Frame Kit – Low Profile (FZNES/FZDES)**
- To be used with Double Hinged Glass Door (FZNE/FZDE) door
- Available for 72” and 80” door opening
- Includes the Vertical and Horizontal Frame for the Clerestory

**Solid Hinged Door Solid Frame Kit (FZNHS/FZDHS/FXDHS)**
- To be used with Hinged Solid Door (FZNS/FZDS) door
- Available for 40” or 42” wide door
- Can be specified with a left or right door swing
- Used when specifying Runs of 12mm Glass

**Glass Hinged Door Solid Frame Kit (FZNJS/FZDJS/FXDJS)**
- To be used with Hinged Glass Door (FZNJ/FZDJ) door
- Available for 40” or 42” wide door
- Can be specified with a left or right door swing

**Glass Pivot Door Solid Frame Kit (FZNPS/FZDPS/FXNPS/FXDPS)**
- To be used with Glass Pivot Door (FZNP/FZDP) for 10mm and Glass Pivot Door (FXNP/FXDP) for 12mm door
- Available for 40” or 42” wide door
- Can be specified with a left or right door swing
- Used when specifying Runs of 12mm Glass
Door Frames are independent frames that cover the vertical and horizontal structural elements and are available for 10mm and 12mm applications.

**Single Barn Door Fixed Rail Kit (FZDBRP) with Single Glass Barn Door Jamb Kit for Fixed Rail (FZDBJP)**
- To be used with Glass Barn Door (FZDB)
- Comes complete with the adjacent glass and frame, so there will be a mullion beside the adjacent glass (see Fascia section for Glass details)
- Available for 40” or 42” wide Doors
- When the 40” door is specified, the adjacent glass will be 30.6” wide
- When the 42” door is specified, the adjacent glass will be 32.65” wide
- Can be specified with a left or right slide
- Glass in the sidelight is 12mm when specified in a run of 12mm glass

**Single Glass Barn Door Jamb Kit for Extended Rail (FZDBJR) with Single Barn Door Extended Rail Kit (FZDBRR)**
- To be used with Glass Barn Door (FZDB)
- Provides an extended rail for a storefront up to 10’ so that a continuous wall of glass can be created without mullions beside the door
- Available for 40” or 42” wide doors
- Can be specified with a left or right slide
- Rail lengths are available from 75" - 144" in 1/8" increments
Double Barn Door Jamb Kit for Fixed Rail (FZDLJP) with Double Barn Door Fixed Rail Kit (FZDLRP)

- To be used with Double Glass Barn Door (FZDL)
- Comes complete with the adjacent glass and frame so there will be a mullion beside the adjacent glass
- Available for 72” or 80” wide doors
- When the 72” door is specified the adjacent glass is 26-3/4”
- When the 80” door is specified the adjacent glass is 30-3/4”
- Integral dampening mechanism included
- Glass in the sidelight is 12mm when specified in a run of 12mm glass

Double Barn Door Jamb Kit for Extended Rail (FZDLJR) with Double Barn Door Extended Rail Kit (FZDLRR)

- To be used with Double Glass Barn Door (FZDL)
- Provides extended rail for a store front up to 146” so that a continuous wall of glass can be created without mullions beside the door
- Available for 72” or 80” wide doors
- 80” doors have fixed rail width of 146” and cannot be extended further
- 72” doors have rail width options from 130” - 146” in 1/4” increments
- Integral dampening mechanism included

Rail must be supported at center through mechanical fastenings to building structure.
Three vertical elements are required for Single Barn Door installations. The following scenarios outline various ways to plan a Barn Door.

**scenario 1**

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

Required Vertical Structural Components:
1. Vertical Post (FZFV) + Vertical Trim (FZFTV)
2. Vertical Post (FZFV) + Vertical Trim (FZFTV)
3. Adjustable Wall Start (FZWS) + Vertical Trim (FZFTV)

Central Barn Door between a 12mm Glass Corner and a Wall Start.

Required Vertical Structural Components:
1. Vertical Post (FXFV) + Vertical Trim (FXFTV)
2. Vertical Post (FXFV) + Vertical Trim (FXFTV)
3. Adjustable Wall Start (FXWS) + Vertical Trim (FXFTV)

**scenario 2**

Barn Door against a Wall and a 10mm Glass Corner on the opposite side

Required Vertical Structural Components:
1. Adjustable Wall Start (FZWS) + Vertical Trim (FZFTV)
2. Vertical Post (FZFV) + Vertical Trim (FZFTV)
3. 3rd Post in the Standard Glass Barn Door Jamb (FZDBJP)

Barn Door against a Wall and a 12mm Glass Corner on the opposite side

Required Vertical Structural Components:
1. Adjustable Wall Start (FXWS) + Vertical Trim (FXFTV)
2. Vertical Post (FXFV) + Vertical Trim (FXFTV)
3. 3rd Post in the Standard Glass Barn Door Jamb (FXDBJP)

**scenario 3**

Central Barn 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)
fixed format

Use fixed rail and jamb when there is a glass corner or the glass wall run is greater than 12'.
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 Barn Door Ends.
Four vertical elements are required for Double Glass Barn Door installations. The following scenarios outline various ways to plan with Double Barn Doors.

**scenario 1**

**Double Barn 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 Barn 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 Barn 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)
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 barn 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 rail and jamb integrated post

Altos corner connection

Wall Start

Fixed rail and jamb integrated post

Wall Start

Fixed rail and jamb integrated post

Wall Start

Fixed rail and jamb integrated post

12" Minimum

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 Barn 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 Barn Door Rail span (not on Barn Door side lights)
barn door rail

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

Three vertical supports are needed for a Barn Door (max. 144")
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

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
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

Avoid seams over door transitions

Install from Corner - in series

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

Floor Channel cut on centerline of Vertical Post
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

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

- Doorstops are provided with single and double hinged glass doors and solid hinged doors (i.e. NOT with Door Frames).

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.
The following trim details are typical of Optos transitions.
fascias – 10mm & 12mm
fascias –
10mm & 12mm

FASCIA BASICS. ............................. 69

PLANNING WITH GLASS MODULES ............ 70

PLANNING WITH ELECTRICAL SIDE PANEL ............ 71
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
The following details should be taken into consideration when planning with Optos glass sections:

- **Two-Way Connection** (A)
- **Three-Way Connection** (B)
- **Four-Way Connection** (C)

The acrylic tape adheres directly to the face of opposing glass.

The following types of corners are not possible:

- **No angles other than 90˚** are possible with Optos.
- One piece of glass spanning two Two-Way 90˚ Corner Connection (FZCY2) is not possible.
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 Barn Door Rail has been used. The panel should therefore be planned on the side adjacent to a Barn 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
For typical openings, Optos offers a variety of doors that meet a range of privacy and functional needs – the three basic types are: Hinged, Pivot and Barn.

- Check local code requirements, as in some jurisdictions the use of Barn Doors limits room occupancy to a maximum of 10 people.
- 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.
- Swing door is specified separate from the frame. See the Frames section for details.
- Barn doors, jambs and rails are specified separately.
- Solid doors are 1-3/4” thick.
- Glass doors are 10mm thick (3/8” nominal) thickness with the exception of Glass Pivot Door that is available in 10mm and 12mm thickness.
- Glass Type: Tempered and Tempered-Laminated.

building up door modules

Frame or Transom and Frame Kit
The frame can be customized by height, swing direction, door package type and frame finish.

Swing Door
The door can be customized by door type, height, swing/pull direction, lever type, hardware type, drop seal and surface finish.

Rail

Jamb

Barn Door
## handles for swing doors

<table>
<thead>
<tr>
<th>Lever Style</th>
<th>S Series</th>
<th>ALX Series</th>
<th>L Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schlage’s name</td>
<td>Jupiter</td>
<td>Athens</td>
<td>07</td>
</tr>
<tr>
<td>Teknion’s name</td>
<td>Type J</td>
<td>Type J</td>
<td>Type J</td>
</tr>
<tr>
<td>Schlage’s name</td>
<td>Saturn</td>
<td>Rhodes</td>
<td>06</td>
</tr>
<tr>
<td>Teknion’s name</td>
<td>Type S</td>
<td>Type S</td>
<td>Type S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lock Type</th>
<th>Available on the following doors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylindrical Lock</td>
<td>Single Hinged Glass Door (FZDJ) Double Hinged Glass Door (FZDE) Single Pivot Glass Door (FZDP) Single Pivot Glass Door (FXDP)</td>
</tr>
<tr>
<td>Mortise Lock</td>
<td>Single Hinged Solid Door (FZNS) Single Hinged Solid Door (FZDS) Single Pivot Glass Door (FZNP) Single Pivot Glass Door (FXNP)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keying</th>
<th>Available on the following doors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional, key in lock (KIL) 6 pin</td>
<td>Available on all above mentioned doors</td>
</tr>
<tr>
<td>Full Size Interchangeable Core (FSIC) cylinder 6 pin</td>
<td>Available on all above mentioned doors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lock Actuation</th>
<th>Available on the following doors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twist turn lock Std on S series</td>
<td>FZDS</td>
</tr>
<tr>
<td>No Lock - Passage set</td>
<td>FZNS</td>
</tr>
<tr>
<td>Push button lock - ADA Std on ALX series</td>
<td>FZNP</td>
</tr>
<tr>
<td>No Lock - Passage set</td>
<td>FXNS</td>
</tr>
<tr>
<td>Basic Turn Schlage 09-509 Basic</td>
<td>FZDS</td>
</tr>
<tr>
<td>Easy turn - ADA Schlage L583-563</td>
<td>FZNS</td>
</tr>
</tbody>
</table>

- **Finishes available:** 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)**
- **After installations, customers may choose to relocate or replace interchangeable core cylinders to suit their security needs**
- **Interchangeable core cylinders can be removed by a universal control key (Order Key Separately)**
- **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 supplied only for handles with interchangeable core cylinders. Control keys need to be ordered separately.**
<table>
<thead>
<tr>
<th>Handle Style</th>
<th>Non-Locking</th>
<th>Locking</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image" alt="1&quot; diameter" /></td>
<td><img src="image" alt="1&quot; diameter" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Available on the following doors</th>
<th>Glass Barn Door (FZDB)</th>
<th>Glass Barn Door (FZDB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Double Glass Barn Door (FZDL)</td>
<td>Double Glass Barn Door (FZDL)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keying</th>
<th>Non-Locking</th>
<th>Locking</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image" alt="Not available" /></td>
<td><img src="image" alt="Full Size Interchangeable Core (FSIC) cylinder 6 pin" /></td>
</tr>
</tbody>
</table>

- Handle and lock cover finish: Stainless Steel ANSI / BHMA 630, US32D or Steel Painted
- 1.1/2" clear space between glass and handle
- ADA handle heights
- When keys are lost or not available, interchangeable cores can be removed and replaced using control keys. Control keys are supplied only for handles with interchangeable core cylinders. Control keys need to be ordered separately.
Six door styles are available for Optos applications.

**Glass Barn Door (FZDB)**
- A full-height glass door that slides open
- Comes complete with hardware and brushed steel or painted pull
- Comes with optional Soft Close Mechanism
- Available with or without standard lock and interchangeable core cylinder
- Locks only from the outside
- Left or Right hand slide available
- Locks cannot be retrofitted
- The Barn Door nominal AFF is constant for hardware types 3 and 4

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>40” Wide</td>
<td>32”</td>
</tr>
<tr>
<td>42” Wide</td>
<td>34”</td>
</tr>
</tbody>
</table>

**Double Glass Barn Door (FZDL)**
- Two full height glass barn doors that slide open
- Comes complete with hardware and brushed steel or painted pull
- One Soft Close Mechanism for each glass door will be installed as standard
- Available with or without standard lock and interchangeable core cylinder
- Locks from outside of right hand door or inside of left hand door
- When lock option is specified, left hand door (from outside) includes a painted cover plate to match right hand door
- Locks cannot be retrofitted
- The Barn Door nominal AFF is constant for hardware types 3 and 4

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>72” Wide</td>
<td>56”</td>
</tr>
<tr>
<td>(2 x 36”)</td>
<td></td>
</tr>
<tr>
<td>80” Wide</td>
<td>64”</td>
</tr>
<tr>
<td>(2 x 40”)</td>
<td></td>
</tr>
</tbody>
</table>

**Hinged Glass Door (FZNJ/FZDJ)**
- A full-height hinged glass door that swings open
- Hinges open to 180°
- Comes complete with hardware and lever handle
- Two lever types are available: J and S
- Available without lock, with Standard lock and cylinder or Standard lock and interchangeable core cylinder
- Left or Right hand swing available
- Includes Door Stop
- Optional 10” high stainless steel kickplate

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>40” Wide</td>
<td>36 1/2”</td>
<td>34 1/4”</td>
</tr>
<tr>
<td>42” Wide</td>
<td>38 1/2”</td>
<td>36 1/4”</td>
</tr>
</tbody>
</table>

**Double Hinged Glass Door (FZNE/FZDE)**
- Two full-height hinged glass doors that swing open
- Hinges open to 180°
- Comes complete with hardware and lever handles
- Two lever types are available: J and S
- Available without locks, with Standard lock and cylinder or Standard lock and interchangeable core cylinder
- Includes Two Door Stops
- Optional 10” high stainless steel kickplate

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>72” Wide</td>
<td>67”</td>
</tr>
<tr>
<td>80” Wide</td>
<td>75”</td>
</tr>
</tbody>
</table>
Six door styles are available for Optos applications. Hinged doors offer a variety of lever options.

### Hinged Solid Door (FZNS/FZDS)
- A full-height hinged door that swings open
- Hinges open to 180°
- Comes complete with hardware and lever handle
- Two lever types are available: J and S
- Available without lock, with Standard lock and cylinder, Standard lock and interchangeable core cylinder, Mortise lock and Standard cylinder or Mortise lock and interchangeable core cylinder
- Left or Right hand swing available
- Includes Door Stop

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>40&quot; Wide</td>
<td>36 1/2&quot;</td>
<td>34 1/4&quot;</td>
</tr>
<tr>
<td>42&quot; Wide</td>
<td>38 1/2&quot;</td>
<td>36 1/4&quot;</td>
</tr>
</tbody>
</table>

### Glass Pivot Door (FZNP/FZDP/FXNP/FXDP)
- A full-height door that pivots open 180°
- Comes complete with hardware and lever handle
- Two lever types are available: J and S
- 10mm Tempered or Tempered-Laminated Glass available for Glass Pivot Door (FZNP/FZDP) and 12mm Tempered or Tempered-Laminated Glass available for Glass Pivot Door (FXNP/FXDP)
- Optional door closer/door stay
- Door Swing adjustable
- Optional 10" high stainless steel kickplate available for Glass Pivot Door (FZNP/FZDP)
- Optional 10" high integrated ADA Aluminum kickplate for Glass Pivot Door (FZNP/FZDP)

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>40&quot; Wide</td>
<td>36 1/2&quot;</td>
<td>36 1/2&quot;</td>
</tr>
<tr>
<td>42&quot; Wide</td>
<td>38 1/2&quot;</td>
<td>38 1/2&quot;</td>
</tr>
</tbody>
</table>

**NOTE:** Certain projects will require ADA (American Disabilities Act, www.ada.gov) compliant locking hardware for doors and it is important to determine this requirement early in the project cycle. While Teknion’s standard catalog door lock hardware is not ADA compliant, we are able to provide a custom special solution that does comply with ADA requirements, subject to local approvals.
The following should be considered when planning with swing doors.

single hinged door

![Glass Door Hinge]

![Solid Door Hinge]

double hinged door

![Thumb Turnpatch]

![Lock]

![Central Door]

![Seal / Strike]
single pivot door

1.3" Vertical Frame

1.3" Door Stile

Minimal for Glass Strength

New Patch Cover

10mm Glass Insert with Glass Pivot Door (FZNP/FZDP) or 12mm Glass Insert with Glass Pivot Door (FXNP/FXDP)

• Tempered and Tempered-Laminate
• Enhanced acoustic performance from continuous Frame Seal

Adjustable Seal

180° swing opening
(without door closer)

Adjustable Drop 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 same as existing
• No exposed fasteners

Door Closer
• Optional
• Dorma concealed closer
• Range 100° maximum open
• Adjustable speed to force adjustment close
Both non-locking and locking versions of the Barn Door are available. Doors are handed and the handedness is determined by the direction the door slides.

**AFF Constant**
Distance from finished floor to bottom of handle is a constant regardless of the ceiling height.

**Type 3 No Lock, Handle AFF constant**

**Type 4 Standard Lock and IC Cylinder, Handle AFF constant**

<table>
<thead>
<tr>
<th>Ceiling Height</th>
<th>Handle Position AFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 120</td>
<td>39-3/4</td>
</tr>
</tbody>
</table>

Nominal AFF is constant for hardware types 3 and 4

**NOTE:** 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.
Both non-locking and locking versions of the Double Barn Door are available.

**non-locking**

![Non Locking Diagram]

Door edge detail provides an acoustic seal and protection from glass edge.

**locking**

![Locking Diagram]

Door edge detail provides an acoustic seal and protection from glass edge.

Nominal AFF is constant for hardware types 3 and 4.
The following should be considered when planning with barn doors.

single barn door handedness

Inside and outside mounting

For a varied aesthetic to storefront planning, Barn Doors may be specified and mounted on either the inside or outside faces of an Optos wall.

single swing door handedness
double swing door handedness

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

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Diagram</th>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-Way 90˚ Corner Connection with Door (FZCZ2/FXCZ2)</td>
<td><img src="image1" alt="Diagram" /></td>
<td>1 outside 90˚ trim piece, 1 inside trim piece and connection hardware</td>
<td>1 vertical post</td>
</tr>
<tr>
<td>Three-Way Connection with One Door (FZCZ3F/FXCZ3F)</td>
<td><img src="image2" alt="Diagram" /></td>
<td>1 outside trim piece, 2 inside trim pieces, 1 top spacer and connection hardware</td>
<td>1 vertical post</td>
</tr>
<tr>
<td>Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B)</td>
<td><img src="image3" alt="Diagram" /></td>
<td>1 outside trim piece, inside trim (quantity varies with door configuration), 1 top spacer and connection hardware</td>
<td>2 vertical posts</td>
</tr>
<tr>
<td>Two-Way Connection for Barn Door Rail (FZCY2E/FXCY2E)</td>
<td><img src="image4" alt="Diagram" /></td>
<td>2 cover trims; 1 top spacer; square steel tube post, connection hardware kits</td>
<td>Base channel assembly, ceiling spacer, glass</td>
</tr>
<tr>
<td>Three-Way Corner Connection Between Doors (FZCY3D/FXCY3D)</td>
<td><img src="image5" alt="Diagram" /></td>
<td>3 cover trims, 1 top spacer, square steel tube post, connection hardware kits</td>
<td>Base channel assembly, ceiling spacer, glass</td>
</tr>
<tr>
<td>Three-Way Corner Connection for Barn Door Rails (FZCY3E/FXCY3E)</td>
<td><img src="image6" alt="Diagram" /></td>
<td>Ceiling &amp; base trim kits, glass and base channel assembly between the posts, connection hardware kits</td>
<td>2 Vertical post, ceiling spacer</td>
</tr>
</tbody>
</table>
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.
**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 barn 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.
<table>
<thead>
<tr>
<th>corner connection</th>
<th>Top View</th>
<th>Ceiling Detail</th>
<th>Floor Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-Way Connection with Drywall Two Doors (FZCW3_B/FXCW3_B)</td>
<td><img src="image1" alt="Top View" /></td>
<td><img src="image2" alt="Ceiling Detail" /></td>
<td><img src="image3" alt="Floor Detail" /></td>
</tr>
<tr>
<td>Connects two Optos doors at 180° to existing building wall.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Three-Way Connection with Drywall Glass (FZCW3_G/FXCW3_G) | ![Top View](image4) | ![Ceiling Detail](image5) | ![Floor Detail](image6) |
| Connects two Optos walls at 180° to existing building wall. |

| Three-Way Connection with Drywall for Barn Door Rails (FZCW3E_N/FXCW3E_N) | ![Top View](image7) | ![Ceiling Detail](image8) | ![Floor Detail](image9) |
| Door End, Glass | Connects one Optos wall and one barn door end at 180° to existing building wall. |

| Three-Way Connection with Drywall for Barn Door Rails (FZCW3E_T/FXCW3E_T) | ![Top View](image10) | ![Ceiling Detail](image11) | ![Floor Detail](image12) |
| Door Start, Door End | Connects one Optos barn door end and one barn door start at 180° to existing building wall. |
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
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
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
The following rules should be taken into consideration when planning with Optos Corners & Connections.

optos to optos

<table>
<thead>
<tr>
<th>restriction</th>
<th>solution 1</th>
<th>solution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram of three-way corner connection]</td>
<td>[Diagram of two-way 90° corner connection with door]</td>
<td>[Diagram of optimal placement]</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>restriction</th>
<th>solution 1</th>
<th>solution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B) at 180° is restricted to a maximum door swing of 90°.</td>
<td>Plan with the Three-Way Corner Connection (FZCY3D/FXCY3D) to create a three-way glass connection and separate the doors (minimum 24”).</td>
<td>Place the door hinge on the opposite side to allow for 180° of swing.</td>
</tr>
</tbody>
</table>

optos to altos

<table>
<thead>
<tr>
<th>restriction</th>
<th>solution 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back to back door openings into corridors or rooms should be avoided.</td>
<td>Change the swing direction of both doors by placing the hinges on the opposite side.</td>
</tr>
<tr>
<td>It is not recommended to use a hinged 180° swing door that swings into a hall.</td>
<td>Change the direction of the door swing so that it swings away from the hall and into the room.</td>
</tr>
</tbody>
</table>
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**

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

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

**articulating three-way corners**

Storefront:
Connects two straight runs of Optos at an angle

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

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 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 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 46”-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 Three-Way Connection with Optos
  - Connects an Optos clerestory wall with two Optos walls or two Optos door frames
  - Available in a Clear Anodized or Painted finish, Fascia Laminates or Flintwood
  - Available in 1” height increments of 94”-120”

- 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”
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

![Diagram of Optos Clerestory Wall System](image-url)
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
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
accessories & electrics
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

Control Key (FXKK)
- Used to remove or install an interchangeable core
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 Barn Door Rail. The panel should therefore be planned on the side adjacent to a Barn Door where the rail is not used.
- Power can be brought in through the top or bottom channel of the Electrical Side Panel.

- 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 cannot be run through the top of the Barn door Rail

The electrical panel should be placed on the opposite side

Optos Electrical Side Panel Altos

Optos  Altos

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