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introduction
Teknion provides an array of tools and information resources to help you get things done simply and easily. From product pricing to application guidelines to online planning suggestions, you will find what you need when you need it.

**product pricing**

Online Access to all current pricing in PDF format, can be found at [www.teknion.com](http://www.teknion.com), by selecting the products tab, the desired product line and then pricing module.

Printed Price Guides by product line containing product maps, detailed pricing tables and product basics information are available to help you specify correctly. These guides can be ordered online through [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then print on demand or by contacting your local Teknion Representative.

**application guidelines**

Online Access to all current Application Guides in PDF format, can be found at [www.teknion.com](http://www.teknion.com), by selecting the tools tab, application guides and the desired product line.

Printed Application Guides by product line containing detailed application guidelines as well as tips to help you plan and specify each of our products are available. These guides can be ordered online through [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then print on demand or by contacting your local Teknion Representative.

**planning tool**

Select and view typicals of our products by setting, product, or footprint. Get great ideas and save time!

Online Access is available on [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then planning tool.

**weights & volumes**

Online Access to Weights & Volumes are available on [www.teknion.com](http://www.teknion.com), by selecting the products tab and the desired product line. Download Weights & Volumes.

**fabrics & finishes**

Teknion’s Fabrics and Finishes offering includes the following programs; Finishes + Materials and Teknion Textiles.

Online Access is available on [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then Fabrics & Finishes.

Printed Fabrics & Finishes Guides can be ordered online through [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then print on demand or by contacting your local Teknion Representative.

**product photography & drawings**

Online Access to all photos, line drawings and renderings are available on [www.teknion.com](http://www.teknion.com), by selecting the tools tab and selecting either photography, CAD symbols or Sketchup 3D Warehouse.

**order forms**

All forms (COM Request, TekniPaint and TekniStain forms) are available online at [www.teknion.com](http://www.teknion.com), by selecting the tools tab and then Fabrics & Finishes. Download the form you require.

**warranty/terms & conditions of sale**

Online Access is available on [www.teknion.com](http://www.teknion.com), by selecting the Legal & Warranty link located on the footer of the website.

**installation guides**

Installation Guides are available for both Online and Print. Contact your Teknion Customer Service Representative for more details.

**user feedback**

How is our marketing material working for you?

Feedback from the user is very important to the quality of Teknion’s marketing material. We ask that if you have suggestions on how you think we could improve content OR if you have found an error, that you please contact your Teknion Technical Services department.
This guide contains detailed application and planning information to help you plan your project correctly. The Introduction section provides everything you need to get started and the subsequent sections provide application information by product type. Each of these sections contains detailed specification guidelines, application and planning information to help you plan your project correctly.

**basics page at a glance**

For pricing details refer to the appropriate Price Guides available on [www.teknion.com](http://www.teknion.com).

---

**frames – 10mm & 12mm**

**optos frame basics**

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

- The maximum length of horizontal frame components are 120” (10 ft) max height extension)
- 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
- Verticals are available in lengths from 86” – 120” and follow ceiling height specifications
- Profile is not available on Curved Walls
- All 10mm component codes begin with “FZ” and all 12mm component codes begin with “FX”.

---

**Product Name and Code, application notes, dimensions and finishes (as applicable)**

**Product Overview Statement**

**Important Product Notes**

---

**application guide**

**Introduction**

**Overall Product Map**

**Overview and Basics by section**

**Planning Details by section**

---

**optos application guide – May 27, 2019**
additional information

The following forms are available at www.teknion.com, by selecting the tools tab and then Fabrics & Finishes, to help you specify and place your order if required:

**teknipaint**

If you require a custom paint color match, you must submit a TekniPaint form.

**using your own material (COM)**

If you wish to use your own material on fabric-covered products, you must submit a completed COM form including a sample upholstery and safety testing.

A COM Order Information Sheet must also be submitted. This form captures all relevant ordering and tracking information.

A COM Request for Yardage Calculation form may be sent to Teknion for preliminary yardage requirements.

**placing a manual order**

Complete an Order Cover Sheet with the information we need to fill your order. This is the most important step. If the Order Cover Sheet is not complete and correct, the order may be delayed.

**noting key requirements**

If you require that certain pieces share the same locks you will need to specify Set of Keys Alike (SOKL) located in the Price and Product Guide.
introduction

frames – 10mm

F Z F S  Wall Start
F Z F S  Variable Angle Wall Start
F Z F E  Wall End

F Z F P  Ceiling Top Spacer
F Z F C  Ceiling Frame Beam
F Z F B  Base Frame & Channel Assembly

F Z F K  Frame Splice Kits
F Z F V  Vertical Post
F Z F TV  Vertical Trim

F Z F T  Horizontal Trim
F Z F F  Filler Panel
F Z D B R P  Single Barn Door Fixed Rail Kit
frames – 10mm

- 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
- FZDLJR: Double Barn Door Jamb Kit for Extended Rail
- 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
introduction

frames – 10mm

FZDJS Glass Hinged Door Solid Frame Kit – Low Profile  FZNPS Glass Framed Pivot Door Frame – Low Profile  FZDPS Glass Pivot Door Solid Frame Kit – Low Profile

FZP Ceiling Supports  FZT Installation Tools
**Introduction**

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Door Type</th>
</tr>
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<tbody>
<tr>
<td>FZDB</td>
<td>Glass Barn Door</td>
</tr>
<tr>
<td>FZDL</td>
<td>Double Glass Barn Door</td>
</tr>
<tr>
<td>FZNJ</td>
<td>Glass Hinged Door</td>
</tr>
<tr>
<td>FZDJ</td>
<td>Hinged Glass Door</td>
</tr>
<tr>
<td>FZNE</td>
<td>Glass Hinged Double Door</td>
</tr>
<tr>
<td>FZDE</td>
<td>Double Hinged Glass Door</td>
</tr>
<tr>
<td>FZNS</td>
<td>Solid Hinged Door</td>
</tr>
<tr>
<td>FZDS</td>
<td>Solid Hinged Door – Low Profile</td>
</tr>
<tr>
<td>FZNP</td>
<td>Glass Framed Pivot Door</td>
</tr>
<tr>
<td>FZDP</td>
<td>Glass Pivot Door</td>
</tr>
</tbody>
</table>
corners & connections – 10mm

FZCY2  Two-Way 90° Corner Connection

FZCY2E  Two-Way Connection for Barn Door Rail

FZFCF2  Two-Way Articulating Corner Connection

FZCY3  Three-Way Corner Connection

FZCY3D  Three-Way Corner Connection Between Doors

FZCY3E  Three-Way Connection for Barn Door Rails

FZFCF3  Three-Way Articulating Corner Connection

Optos to Optos

Two Glass
One Glass; One Door (Right)
One Glass; One Door (Left)
Two Doors
corners & connections – 10mm

FZCZ2 Two-Way 90° Corner Connection with Door

FZCZ3A 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

FZCA2E Two-Way Connection for Barn Door Rail End with Altos
corners & connections – 10mm

FZCA2  Two-Way Articulating Connection with Altos

Glass (Left)  Door (Left)

FZCA3A  Three-Way Connection with Altos – Two Optos at 90°

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

FZCA3B  Three-Way Connection with Altos – Two Optos at 180°

Glass  Two Doors  One Glass, One Door

FZCA3C  Three-Way Connection with Altos – Two Altos at 90°  FZCA3D  Three-Way Connection with Altos – Two Altos at 180°

Glass  Door  Glass  Door
corners & connections – 10mm

**FZCA3E** Three-Way Connection with Altos
for Barn Door Rails

**FZFA3** Three-Way Articulating Connection with Altos

**FZCA4B** Four-Way Connection with Altos – Two Optos at 180°

**FZCD2** Two-Way Connection with Drywall

**FZCD2E** Two-Way Connection with Drywall
for Barn Door Rail End
corners & connections – 10mm

FZCD3  Three-Way Connection with Drywall

FZCD3E  Three-Way Connection with Drywall for Barn Door Rails

Optos to Altos

One Door  Two Doors  Glass

Door End or Glass, Door End or Glass  Door Start, Door End
clerestory – 10mm

FZCG Clerestory Glass Module

FZCFV Clerestory Vertical Post

FZCCX1 Clerestory In-Line Connection with Optos

FZCC2E Clerestory Two-Way Connection for Barn Door Rail End

FZCCX2 Clerestory Two-Way 90° Corner Connection with Optos

FZCCA2 Clerestory Two-Way 90° Corner Connection with Altos

FZCCY2 Clerestory Two-Way 90° Corner Connection
FZCX3  Clerestory Three-Way Connection with Optos

FZCY3  Clerestory Three-Way Connection

FZCA3  Clerestory Three-Way Connection with Altos
frames – 12mm

FXFS  Wall Start  FXFS  Variable Angle Wall Start  FXFP  Ceiling Top Spacer

FXFC  Ceiling Frame Beam  FXFB  Base Frame & Channel Assembly  FXFK  Frame Splice Kits

FXFV  Vertical Post  FXFTV  Vertical Trim  FXFT  Horizontal Trim

FXFF  Filler Panel  FXDBRP  Single Barn Door Fixed Rail Kit  FXDBJP  Jamb Kit for Fixed Rail

FXFB  Base Frame & Channel Assembly  FXFK  Frame Splice Kits

optos application guide – May 27, 2019
frames – 12mm

FXDPS  Glass Pivot Door Solid Frame Kit
FXP Ceiling Supports
FXDLRR  Double Barn Door Extended Rail Kit
FXDJS  Glass Hinged Door Solid Frame Kit
FXNPS  Glass Framed Pivot Door Frame
FXDBRR  Single Barn Door Extended Rail Kit
FXDLP  Double Barn Door Fixed Rail Kit
FXDBJR  Single Glass Barn Door Jamb Kit for Extended Rail
FXDJP  Glass Pivot Door Solid Frame 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
FXDJR  Double Barn Door Jamb Kit for Extended Rail
introduction

fascias – 12mm

F XP Glass Panel  F X G K Glass Assembly Hardware Kit  F XS Electrical Side Panel

FXGP FXGK FXSK
doors – 12mm

- 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
introduction

corners & connections – 12mm

FXCY2 Two-Way 90° Corner Connection

FXCYE 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

FXCZ3A Three-Way Connection with One Door

Optos to Optos

Center Left Right
corners & connections – 12mm

FXCZ3B  Three-Way Connection with Two Doors

FXCA1  180° Connection with Altos

FXCA2  Two-Way 90° Connection with Altos

FXCA2E  Two-Way Connection for Barn Door Rail End with Altos

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

FXCA2  Two-Way 90° Connection with Altos

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

Optos to Altos

Glass

Two Glass

Two Doors

One Glass, One Door

One Glass, One Door Centered

One Glass In-Line, One Door Centered

One Glass Centered, One Door In-Line

Glass

Door

Left / Right

Two Glass

Two Doors

One Glass Centered, One Door In-Line

One Glass In-Line, One Door Centered

One Glass, One Door
corners & connections – 12mm

FXCA3C  Three-Way Connection with Altos – Two Altos at 90°

FXCA3D  Three-Way Connection with Altos – Two Altos at 180°

FXCA3E  Three-Way Connection with Altos for Barn Door Rails

FXCA4B  Four-Way Connection with Altos – Two Optos at 180°

FXCD2  Two-Way Connection with Drywall

FXCD2E  Two-Way Connection with Drywall for Barn Door Rail End

Optos to Altos
corners & connections – 12mm

FXCD 3  Three-Way Connection with Drywall

One Door  Two Doors  Glass

FXCD 3E  Three-Way Connection with Drywall for Barn Door Rails

Door End or Glass, Door End or Glass  Door Start, Door End
introduction

clerestory – 12mm

FXCG Clerestory Glass Module

FXCFV Clerestory Vertical Post

FXCCX1 Clerestory In-Line Connection with Optos

FXCCX2 Clerestory Two-Way 90° Corner Connection with Optos

FXCCA2 Clerestory Two-Way 90° Corner Connection with Altos

FXCCY2 Clerestory Two-Way 90° Corner Connection

optos application guide – May 27, 2019
clerestory – 12mm

FXCX3  Clerestory Three-Way Connection with Optos

FXCY3  Clerestory Three-Way Connection

FXCA3  Clerestory Three-Way Connection with Altos

Glass

One Door

Two Doors
introduction

electrics

ERM Receptacle Module  ELS Light Switch
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 Door available in 12mm is the FXDP Framed Pivot Door.
storefront planning formats with optos:

straight runs with 90° corners

Demising Walls can be:
- Optos
- Altos
- Optos Clerestory

straight runs with articulating corners

Demising Walls can be:
- Optos
- Altos
- Optos Clerestory
The following demonstrates the planning possibilities available in Optos.
optos with articulating corners / altos / building integration
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
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:

end to end

end to joint

joint to joint
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's structure, as filler panels are solid and can be modified in width on-site.

---

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.

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.

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

Furniture is typically planned against the solid walls and not the glass.
frames —
10mm & 12mm
frames – 10mm & 12mm

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PLANNING WITH TRIMS ....................................................... 65
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”.

![Diagram of Optos frames](image)
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
## Ceiling Profile

<table>
<thead>
<tr>
<th>Ceiling Profile</th>
<th>Ceiling Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram 1" /></td>
<td>FXP4 / FZP4</td>
</tr>
<tr>
<td><img src="image2.png" alt="Diagram 2" /></td>
<td>FXP4 / FZP4</td>
</tr>
<tr>
<td><img src="image3.png" alt="Diagram 3" /></td>
<td>FXP5 / FZP5</td>
</tr>
<tr>
<td><img src="image4.png" alt="Diagram 4" /></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.

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

Incremental Top Spacer
Trim Cup

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"
5/8" nominal ceiling to ceiling spacer height
0.9"
1.3"

5/8" nominal floor to base trim height

leveling range maximum only
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 Leveling System Diagram]

### Base Leveling System

![Base Leveling System Diagram]
Door Frames are independent frames that cover the vertical and horizontal structural elements.

- The door is ordered separately, see Door section for details
- Please check local code requirements, as in some jurisdiction 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)
- 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)
- 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)

Single Barn Door Fixed Rail Kit (FXDBRP) with Single Glass Barn Door Jamb Kit for Fixed Rail (FXDBJP)

- 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)

Single Glass Barn Door Jamb Kit for Extended Rail (FXDBJR) with Single Barn Door Extended Rail Kit (FXDBRR)

- 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 widths are available from 96” - 144” in 1/4” increments
Double Barn Door Jamb Kit for Fixed Rail (FZDLJP) with Double Barn Door Fixed Rail Kit (FZDLRP)

Double Barn Door Jamb Kit for Fixed Rail (FXDLJP) with Double Barn Door Fixed Rail Kit (FXDLRP)

- 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 29”
- When the 80” door is specified the adjacent glass is 33”
- 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)

Double Barn Door Jamb Kit for Extended Rail (FXDLJR) with Double Barn Door Extended Rail Kit (FXDLRR)

- 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 1/2” 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. Wall Start (FZFS) + Vertical Trim (FZFTV)

Central Barn Door between a 12mm Glass Corner and a Wall Start.
Required Vertical Structural Components:
1. Wall Start (FXFS) + Vertical Trim (FXFTV)
2. Vertical Post (FXFV) + Vertical Trim (FXFTV)
3. Wall Start (FXFS) + Vertical Trim (FXFTV)

**scenario 2**
Barn Door against a Wall and a 10mm Glass Corner on the opposite side
Required Vertical Structural Components:
1. Wall Start (FXFS) + Vertical Trim (FXFTV)
2. Vertical Post (FXFV) + Vertical Trim (FXFTV)
3. 3rd Post in the Standard Glass Barn Door Jamb (FXDBJP)

Barn Door against a Wall and a 12mm Glass Corner on the opposite side
Required Vertical Structural Components:
1. Wall Start (FXFS) + 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 (FZCA2E/FXCA2E)
fixed format

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

Glass Corner

Third post in a fixed barn door jamb

Doors can be mounted on inside or outside of Optos glass wall
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. Wall Start (FZFS/FXFS) + Vertical Trim (FZFTV/FXFTV)
2. Wall Start (FZFS/FXFS) + 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 (FZCA2E/FXCA2E)
2. Two-Way Connection for Barn Door Rail End with Altos (FZCA2E/FXCA2E)
3. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
4. Vertical Post (FZFV/FXFV) + Vertical Trim (FZFTV/FXFTV)
planning with double barn 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".
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

Wall Start

Fixed rail and jamb integrated post

Wall Start

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)
frames – 10mm & 12mm

planning with double barn doors (continued)

barn door rail

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

Ceiling Frame Beam for Barn Door

Full length beam

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

optos application guide – May 27, 2019
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

Install from Corner - in series

Avoid seams over door transitions

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.

The Vertical Trim extends to meet the top edge of the Horizontal Trim.

The Vertical Trim extends to meet the top edge of the Horizontal Trim

The Top Ceiling Spacer meets the finished wall end.

The Top Ceiling Spacer finishes at the building structure.

The finished Wall End extends from floor to ceiling.

The Horizontal Trim meets the side of the Vertical Trim.

The Horizontal Trim meets the side of the Vertical Trim.

Building structure

The Vertical Trim extends to meet the bottom edge of the Horizontal Base Trim.

The Vertical Trim extends to meet the bottom edge of the Horizontal Base Trim

The Horizontal Base Trim meets the side of the Vertical Trim.

The Horizontal Base Trim meets the side of the Vertical Trim

The filler panel creates a straight starting point for glass and is attached to the building structure.

The filler panel creates a straight starting point for glass and is attached to the building structure

The Horizontal Base Frame and Channel Assembly meet the building structure.

The Horizontal Base Frame and Channel Assembly meet the building structure

The Horizontal Base Frame and Channel Assembly meet the finished Wall End.

The Horizontal Base Frame and Channel Assembly meet the finished Wall End

Horizontal Trips have a 1/16” cap to prevent scratching the Vertical Trim during installation.

Horizontal Trips have a 1/16” cap to prevent scratching the Vertical Trim during installation

Horizontal Trims are available in Clear Anodized or Painted.

Horizontal Trims are available in Clear Anodized or Painted.
fascias –
10mm & 12mm
fascias – 10mm & 12mm

Fascia Basics ................................................. 69

Planning with Glass Modules ...................... 70

Planning with the Electrical Side Panel .......... 71
Two Fascia types are available: the Glass Kit and the Electrical Side Panel.

- Tempered Glass in 10mm & 12mm is only available in Standard clear
- No textured glass is available
The following details should be taken into consideration when planning with Optos glass sections:

**A** Two-Way Connection

**B** Three-Way Connection

**C** Four-Way Connection

The acrylic tape adheres directly to 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
doors – 10mm & 12mm

DOOR OVERVIEW ........................................ 75

DOOR BASICS ........................................... 76

SWING DOOR DETAILS ............................... 78

SINGLE BARN DOOR DETAILS ..................... 80

DOUBLE BARN DOOR DETAILS ..................... 81

PLANNING WITH DOORS ............................. 82
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.

- Please 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
- 10mm Glass Pivot Door (FZNP/FZDP) or 12mm Glass Pivot Door (FXNP/FXDP)

building up door modules

lever types for Swing Doors:

- Jupiter
- Saturn

handle types for Barn Doors:

- Non-Locking
- Locking

hardware types:

- Without Lock (Passage Set)
- Standard Lock and Cylinder
- Mortise Lock and Standard Cylinder
- Mortise Lock and Interchangeable Core Cylinder
- Standard Lock and Interchangeable Core Cylinder

- Doors specified with “Standard Cylinder” are keyed randomly (two keys provided per door)
- Doors specified with “Interchangeable Core Cylinder” are keyed randomly (two keys provided per door) yet can be removed by a universal control key (one key provided per order)
- After installations, customers may choose to relocate or replace interchangeable core cylinders to suit their security needs
doors – 10mm & 12mm

doors basics

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 has six positions for hardware types 1 and 2; 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 has six positions for hardware types 1 and 2; is constant for hardware types 3 and 4

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Clearance</th>
<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>72” Wide</td>
<td>56”</td>
<td></td>
</tr>
<tr>
<td>2 x 36”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80” Wide</td>
<td>64”</td>
<td></td>
</tr>
<tr>
<td>2 x 40”</td>
<td></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 Chrome lever handle
- Two lever types are available: Jupiter and Saturn
- 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 Chrome lever handles
- Two lever types are available: Jupiter and Saturn
- 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 Chrome lever handle
- Two lever types are available: Jupiter and Saturn
- 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 Chrome lever handle
- Two lever types are available: Jupiter and Saturn
- 10mm Tempered or Laminated Glass available for Glass Pivot Door (FZNP/FZDP) and 12mm Tempered or 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>
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<th>Door Size</th>
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<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>40&quot; Wide</td>
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<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.
doors – 10mm & 12mm

swing door details

The following should be considered when planning with swing doors.

single hinged door

![Glass Door Hinge](image1)
![Solid Door Hinge](image2)

double hinged door

![Thumb Turn patch Lock](image3)
![Central Door Seal / Strike](image4)

84"
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 Laminate
- Enhanced acoustic performance from continuous Frame Seal

Adjustable Seal

Pivots to back

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
- Saturn and Jupiter 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
doors – 10mm & 12mm

single barn door details

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**
Distant 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>

**AFF 6” Range** (for backward compatibility)
Distance from finished floor to bottom of handle varies with ceiling height. The variation is as per chart, with a total of six possible handle positions regardless of the ceiling height.

**Type 1 No Lock, Handle AFF 6” range**

**Type 2 Standard Lock and IC Cylinder, Handle AFF 6” range**

<table>
<thead>
<tr>
<th>Ceiling Height</th>
<th>Handle Position AFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>84, 90, 96, 102, 108, 114, 120</td>
<td>40</td>
</tr>
<tr>
<td>+1</td>
<td>35</td>
</tr>
<tr>
<td>+2</td>
<td>36</td>
</tr>
<tr>
<td>+3</td>
<td>37</td>
</tr>
<tr>
<td>+4</td>
<td>38</td>
</tr>
<tr>
<td>+5</td>
<td>39</td>
</tr>
</tbody>
</table>

**non-locking**

**locking**

Non-locking

Locking

Nominal AFF has six positions for hardware types 1 and 2
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

Locking

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

non-locking

-floor

Nominal AFF has six positions for hardware types 1 and 2
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

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

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
corners & connections – 10mm & 12mm

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, please 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.

Two-Way 90˚ Corner Connection with Door (FZCZ2/FXCZ2)
- Joins a section of glass with a door at 90˚
- Door location can be specified left or right

What's Included
1 outside 90˚ trim piece, 1 inside trim piece and connection hardware

What’s Excluded
1 vertical post

Three-Way Connection with One Door (FZCZ3A/FXCZ3A)
- Joins two pieces of glass with one door
- Door location can be specified left, right or centered

What's Included
1 outside trim piece, 2 inside trim pieces, 1 top spacer and connection hardware

What’s Excluded
1 vertical post

Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B)
- Joins one piece of glass and two doors
- Available in one configuration: Two doors at 180˚ (B)

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

What’s Excluded
2 vertical posts

Two-Way Connection for Barn Door Rail (FZCY2E/FXCY2E)
- 90˚ Connection for Barn Door Rail Ends
- Available in two configurations, two Barn Door Ends (shown) or two Barn Door Ends (E) or one Barn Door End and one Barn Door Start (S)

What’s Included
2 cover trims; 1 top spacer; square steel tube post, connection hardware kits

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

Three-Way Corner Connection Between Doors (FZCY3D/FXCY3D)
- Connects two doors with one piece of glass at a set distance apart

What’s Included
3 cover trims, 1 top spacer, square steel tube post, connection hardware kits

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

Three-Way Corner Connection for Barn Door Rails (FZCY3E/FXCY3E)
- Joins one pieces of glass with one or two Barn Doors at 180˚
- Available in two configurations, two Barn Door Ends (shown) or one Barn Door End (E) or one Barn Door Start and one Barn 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 connections are available in two- and three-way connections.

**Two-Way Connection with Drywall (FZCD2/FXCD2)**
Connects Optos Wall with existing building wall at 90°. Use Door (D) configuration for one door.

**Three-Way Connection with Drywall (FZCD3/FXCD3)**
Connects two Optos Walls at 180° to existing building wall. Use One Door (A) or Two Doors (B) configurations.
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
corners & connections – 10mm & 12mm

optos to altos corner connection basics (continued)

articulating two-way and three-way connections

Two-Way Articulating Corner (FZFCA2)
• Connects two straight runs one Optos, one Altos at an angle

Three-Way Articulating Connection (FZFCA3)
• Connects two angled runs of Optos with Altos demising
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>Three-Way Corner Connection (FZCY3/ FXCY3) should not happen on or near the seam of the opposing run of glass.</td>
<td>The minimum recommended distance from a seam to the connection is 10”.</td>
<td>The ideal solution is to place the connection in the center of a face of glass.</td>
</tr>
</tbody>
</table>
| 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. |
## Optos to Optos

<table>
<thead>
<tr>
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<th>Solution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
</tr>
</tbody>
</table>

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

Plan with the Three-Way Corner Connection (FZCY3/FXCY3) to create a three-way glass connection and separate the doors (minimum 24°).

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

### Optos to Altos

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Diagram" /></td>
<td><img src="image5" alt="Diagram" /></td>
</tr>
</tbody>
</table>

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

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

| ![Diagram](image6) | ![Diagram](image7) |

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

Change the direction of the door swing so that it swings away from the hall and into the room.
corners & connections – 10mm & 12mm

optos connections planning rules (continued)

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

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

articulating two-way corners

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

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

articulating three-way corners

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

Storefront:
Connects two straight runs of Optos at an angle

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

Articulating Three-Way Connection (FZFCF3)
Connects a two faceted module or two straight runs of Optos with a straight run of Optos
clerestory –
10mm & 12mm
clerestory – 10mm & 12mm

clerestory basics

An Optos clerestory module consists of Optos clerestory above 84” and Altos below and is available in 10mm glass only.

- Tempered Glass is only available in Standard Clear
- Textured glass is not available
- 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 Wall Start (FZFS/FXFS)

Clerestory Glass Module (FZCG/FXCG)
- Is a framed, single centered glass fascia
- Glass is 6mm and available in tempered or laminated
- Tempered glass is available in Clear
- Laminated glass is available in Clear, Frost and Vanceva Specialty Glass

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

- Tempered Glass is only available in Standard Clear
- Textured glass is not available
- 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 Wall Start (FZFS/FXFS) is required
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
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
optos clerestory planning rules (continued)

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

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

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

ELECTRICS BASICS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 106

PLANNING WITH ELECTRICS . . . . . . . . . . . . . . . . . . . . . . . . . . 107
An Electrical Side Panel is available to accommodate a light switch module or an Electrical Module.

**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

**Diagram Notes**
- 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
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 run through the top of the Barn door Rail.
- The electrical panel should be placed on the opposite side.

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

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