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FASCIAS – 10MM & 12MM ............................................... 
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CORNER & CONNECTIONS – 10MM & 12MM ...................... 
CLERESTORY – 10MM & 12MM ....................................... 
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introduction
where to find the information you need

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.
application guide

Introduction
Overall Product Map
Overview and Basics by section
Planning Details by section

basics page at a glance

For pricing details refer to the appropriate Price Guides available on www.teknion.com.
how to make this guide work for you (continued)

application guideline details at a glance

corners & connections – 10mm & 12mm

**optos connections planning rules (continued)**

<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 (FZCY3/FXCY3) is restricted to a maximum door swing of 90˚.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place the Three-Way Corner Connections (FZCY3/FXCY3) to create a corner glass connection and separate the doors (minimum 24”).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place the door hinge on the opposite side to allow for 180˚ of swing.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**optos to optos**

- Change the direction of the door swing so that it swings away from the hall and into the room.
- It is not recommended to use a hinged 180˚ swing door that swings into a hall.
- Change the swing direction of both doors by placing the hinges on the opposite side.
- Back to back door openings into corridors or rooms should be avoided.

**optos to altos**

Planning and/or application details

<table>
<thead>
<tr>
<th>Section Title</th>
<th>Page Title</th>
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</thead>
<tbody>
<tr>
<td>Place the door hinge on the opposite side to allow for 180˚ of swing.</td>
<td></td>
</tr>
</tbody>
</table>

additional information

The following forms are available at [www.teknion.com](http://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.
frames – 10mm

- FZFS Wall Start
- FZFFS 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
- FZDBFP Standard Glass Barn Door Frame
## Frames – 10mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>F Z D B F R</td>
<td>Glass Barn Door Frame with Extended Rail</td>
</tr>
<tr>
<td>F Z D L F P</td>
<td>Standard Double Barn Door Frame</td>
</tr>
<tr>
<td>F Z D L F R</td>
<td>Extended Double Barn Door Frame</td>
</tr>
<tr>
<td>F Z N H S</td>
<td>Solid Hinged Door Frame – Low Profile</td>
</tr>
<tr>
<td>F Z D H S</td>
<td>Solid Hinged Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>F Z N E S</td>
<td>Glass Hinged Double Door Frame – Low Profile</td>
</tr>
<tr>
<td>F Z D E S</td>
<td>Glass Hinged Double Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>F Z N J S</td>
<td>Glass Hinged Door Frame – Low Profile</td>
</tr>
<tr>
<td>F Z D J S</td>
<td>Glass Hinged Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>F Z N P S</td>
<td>Glass Framed Pivot Door Frame – Low Profile</td>
</tr>
<tr>
<td>F Z D P S</td>
<td>Glass Pivot Door Solid Frame Kit – Low Profile</td>
</tr>
<tr>
<td>F Z P</td>
<td>Ceiling Supports</td>
</tr>
</tbody>
</table>
introduction

frames – 10mm

F Z T  Installation Tools
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

F Z D B  Glass Barn Door  
F Z D L  Double Glass Barn Door  
F Z N J  Glass Hinged Door

F Z D J  Hinged Glass Door  
F Z N E  Glass Hinged Double Door  
F Z D E  Double Hinged Glass Door

F Z N S  Solid Hinged Door  
F Z D S  Solid Hinged Door – Low Profile  
F Z N P  Glass Framed Pivot Door

F Z D P  Glass Pivot Door
corners & connections – 10mm

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FZCY2</td>
<td>Two-Way 90° Corner Connection</td>
</tr>
<tr>
<td>FZCY2E</td>
<td>Two-Way Connection for Barn Door Rail</td>
</tr>
<tr>
<td>FZFCF2</td>
<td>Two-Way Articulating Corner Connection</td>
</tr>
<tr>
<td>FZCY3</td>
<td>Three-Way Corner Connection</td>
</tr>
<tr>
<td>FZCY3D</td>
<td>Three-Way Corner Connection Between Doors</td>
</tr>
<tr>
<td>FZCY3E</td>
<td>Three-Way Connection for Barn Door Rails</td>
</tr>
<tr>
<td>FZFCF3</td>
<td>Three-Way Articulating Corner Connection</td>
</tr>
</tbody>
</table>

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

Optos to Optos

Optos to Altos

Left / Right

Glass

Door
corners & connections – 10mm

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

Glass (Left)  Door (Left)

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

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

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

Glass  Two Doors  One Glass, One Door

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

**FZCA3** 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

**F Z C D 3**  Three-Way Connection with Drywall

- One Door
- Two Doors
- Glass

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

- Door End or Glass, Door End or Glass
- Door Start, Door End

Optos to Altos
introduction

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
## Clerestory – 10mm

<table>
<thead>
<tr>
<th>FZCX3</th>
<th>Clerestory Three-Way Connection with Optos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>One Door</td>
</tr>
<tr>
<td>Two Doors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FZCY3</th>
<th>Clerestory Three-Way Connection</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FZCA3</th>
<th>Clerestory Three-Way Connection with Altos</th>
</tr>
</thead>
</table>
frames – 12mm

- FXF Wall Start
- FXXS Variable Angle Wall Start
- FXF 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
- FXDF Standard Glass Barn Door Frame
- FXDBFR Glass Barn Door Frame with Extended Rail
frames – 12mm

FXDLP  Standard Double Barn Door Frame
FXDLR  Extended Double Barn Door Frame
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>F X G P</th>
<th>Glass Panel</th>
<th>F X G K</th>
<th>Glass Assembly Hardware Kit</th>
<th>F X S</th>
<th>Electrical Side Panel</th>
</tr>
</thead>
</table>

![Diagram of Glass Panel, Glass Assembly Hardware Kit, and Electrical Side Panel]
Doors – 12mm

- FZDB Glass Barn Door
- FZDL Double Glass Barn Door
- FZNJ Glass Hinged Door
- FZDJ Hinged Glass Door
- FZNJ Glass Hinged 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 – 12mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXCY2</td>
<td>Two-Way 90° Corner Connection</td>
</tr>
<tr>
<td>FXCY2E</td>
<td>Two-Way Connection for Barn Door Rail</td>
</tr>
<tr>
<td>FXCY3</td>
<td>Three-Way Corner Connection</td>
</tr>
<tr>
<td>FXCY3A</td>
<td>Three-Way Connection with One Door</td>
</tr>
<tr>
<td>FXCY3D</td>
<td>Three-Way Corner Connection Between Doors</td>
</tr>
<tr>
<td>FXCY3E</td>
<td>Three-Way Connection for Barn Door Rails</td>
</tr>
<tr>
<td>FXCZ2</td>
<td>Two-Way 90° Corner Connection with Door</td>
</tr>
<tr>
<td>FXCZ3A</td>
<td>Three-Way Connection with One Door</td>
</tr>
</tbody>
</table>

**Optos to Optos**

- Center
- Left
- Right

*Door End or Glass, Door End or Glass*

*Door Start, Door End (left or right handed)*
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°

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

Optos to Altos

Glass

Two Glass

One Glass, One Door

Two Doors

One Glass Centered, One Door In-Line

One Glass In-Line, One Door Centered
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
corners & connections – 12mm

FXCD3 Three-Way Connection with Drywall

One Door  Two Doors  Glass

FXCD3E Three-Way Connection with Drywall for Barn Door Rails

Door End or Glass, Door End or Glass  Door Start, Door End
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
clerestory – 12mm

- FXCXA3 Clerestory Three-Way Connection with Altos
- FXCXB3 Clerestory Three-Way Connection with Optos
- FXCYA3 Clerestory Three-Way Connection

Three-Way Connections

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.
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.

- **Private office storefront with drywall partition**
- **Long store front private offices with drywall partition**
- **Optos / Altos integration**
- **Optos / Altos boardroom**
- **Optos / Building integration**
- **Optos boardroom**
planning possibilities (continued)

optos with articulating corners / altos / building integration
planning considerations

The following should be considered when planning with Optos.

**Step 1:**
survey building site

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

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

- When attaching Optos to a bulkhead, ceiling must be level and flatness should not exceed more than 3/16” over 10’

- The floor should be flat and level, the maximum floor level tolerance is 2” over a single run

- If the ceiling is a suspended grid, the grid must be completely level and flat with a tolerance of 3/16” over 10’

- Direct fastening to the grid is done with ceiling clips

- Consider the location of HVAC ducts and lighting panels on the ceiling before laying out the wall runs

- Plan with Optos to optimize the amount of natural light that will flow into corridors for energy saving and LEED credits
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.
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.
frames —
10mm & 12mm
frames – 10mm & 12mm

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PLANNING WITH TRIMS ............................ 61
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” (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
- Profile is not available on Curved Walls
- All 10mm component codes begin with “FZ” and all 12mm component codes begin with “FX”.

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

Ceiling Support (FZP/FXP)
- Reinforcement 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 Clips (FZP2.3.4.5/ FXP2.3.4.5) are required for all other areas
- To estimate quantities, allow for one Ceiling Clip per tile

Vertical Post (FZVF/FXVF)
- Used with other frame components and connections to provide vertical support

Vertical Trim (FZFTV/FXFTV)
- Provides a trim for the Vertical Post (FZVF) and Wall Start (FZFS) for 10mm and Vertical Post (FXVF) and Wall Start (FXFS) for 12mm

Frame Splice Kit (FZFK/FXFK)
- Required to connect two Base Frame & Channel Assemblies (FZFB) or two Ceiling Top Spacers (FXFB) for 10mm and Base Frame & Channel Assemblies (FXFB) or two Ceiling Top Spacers (FXFP)

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:

Long wearer, horizontal trim conceals the base frame and is cut to length on site

Profile is not available on Curved Walls
- All 10mm component codes begin with “FZ” and all 12mm component codes begin with “FX”.

Ceiling Support (FZP/FXP)
- Reinforcement Plank (FZP1/ FXP1) is required for additional support above doors and at corners (Optos to Optos and Optos to Altos)
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Vertical Post (FZVF/FXVF)
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Vertical Trim (FZFTV/FXFTV)
- Provides a trim for the Vertical Post (FZVF) and Wall Start (FZFS) for 10mm and Vertical Post (FXVF) and Wall Start (FXFS) for 12mm

Frame Splice Kit (FZFK/FXFK)
- Required to connect two Base Frame & Channel Assemblies (FZFB) or two Ceiling Top Spacers (FXFB) for 10mm and Base Frame & Channel Assemblies (FXFB) or two Ceiling Top Spacers (FXFP)

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- Also available but not shown below:

Long wearer, horizontal trim conceals the base frame and is cut to length on site

Profile is not available on Curved Walls
- All 10mm component codes begin with “FZ” and all 12mm component codes begin with “FX”. 
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"
5/8" nominal ceiling to ceiling spacer height
0.9"
1.3"

leveling range maximum only
1-5/8" (-1/4" - +1-3/4")
5/8" nominal floor to base trim height
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

[Diagram of ceiling leveling system]

### Base Leveling System

[Diagram of base leveling system]
Door Frames are independent frames that cover the vertical and horizontal structural elements and are available for 10mm and 12mm applications.

- The door is ordered separately, see Door section for details
- Door leveling adjustment is from 0 to +1-1/4”
- 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

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**Double Glass Barn Door Frame (FZDLFP/FXDLFP)**
- 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 (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

---

**Extended Double Barn Door Frame (FZDLFR/FXDLFR)**
- To be used with Double Glass Barn Door (FZDL)
- Provides 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

---

**Standard Glass Barn Door Frame (FZDBFP/FXDBFP)**
- 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

---

**Glass Barn Door Frame with Extended Rail (FZDBFR/FXDBFR)**
- 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

---

Frame at base is connected to floor on both sides

---

Frame at base is connected to floor on both sides
Door Frame Basics (continued)

Door Frames are independent frames that cover the vertical and horizontal structural elements.

- The door is ordered separately, see door section for details
- Door leveling adjustment is from 0 to +1-1/4"
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)

**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 Frame (FXDBFP)

**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/FXCA2E)
Planning with single barn doors (continued)

Standard Format

Use standard frame when there is a glass corner or the glass wall run is greater than 12'.

Glass Corner

Third post in a Standard Barn Door Frame (fixed position)

Doors can be mounted on inside or outside of Optos glass wall

Use Standard Barn Door when there is a glass corner
extended rail format

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

Whenever planning with Extended Rail 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 Frame (FZDLFP/FXDLFP)
2. Integrated Post within Standard Double Barn Door Frame (FZDLFP/FXDLFP)
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)
Four vertical elements are required for double glass barn door installation. The following scenarios outline various ways to plan with double barn doors.

**standard format**

Use standard frame when there is a glass corner or the glass wall run is greater than 146”.

**extended rail format**

Use extended rail frame between drywall or Altos where center to center between end posts is no greater than 146”.
Four vertical elements are required for Double Glass Barn Door installations. The following scenarios outline various ways to plan with Double Barn Doors.

Both end conditions of door module must be the same either standard frame integrated post or wall start/Altos connection.

- 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).
- Two standard frame doors must be separated by a minimum of 12”.
- Two adjacent standard frame doors cannot share a common integrated post.
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
The following should be considered when installing Optos Door and Frame components.

**Ceiling Frame Beam**

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

Avoid seams over door transitions

Install from Corner - in series

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

### 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](image)

*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

![Base Frame](image)

*Cut to face of vertical post*
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 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 Vertical Trim extends to meet the bottom edge of the Horizontal Base Trim.
  - The filler panel creates a straight starting point for glass and is attached to the building structure.
- The Horizontal Trim meets the side of the Vertical Trim.
  - The Horizontal Base Frame and Channel Assembly meet the building structure.
  - The Horizontal Base Frame and Channel Assembly meet the finished Wall End.
- Horizontal Trims have a 1/16” cap to prevent scratching the Vertical Trim during installation.
- Horizontal Trims are available in Clear Anodized or Painted.
fascias – 10mm & 12mm
fascias – 10mm & 12mm

FASCIA BASICS. .............................. 65

PLANNING WITH GLASS MODULES. ......................... 66

PLANNING WITH THE ELECTRICAL SIDE PANEL ............... 67
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

**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

**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

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

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

For 10mm Glass, the Beveled mitered corner joint is joined with 2mm x 6mm acrylic tape, available in the Glass Assembly Hardware Kit (FZGK) or Installation Tool (FZT)

For 12mm Glass, the Beveled mitered corner joint is joined with 2mm x 8mm acrylic tape, available in the Glass Assembly Hardware Kit (FXGK) or Installation Tool (FZT)
The following details should be taken into consideration when planning with Optos glass sections.

Two-Way Connection

Three-Way Connection

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 BASICS .............................. .70

HINGED DOOR DETAILS .............................. .72

SINGLE BARN DOOR DETAILS .............................. .73

DOUBLE BARN DOOR DETAILS .............................. .74

PLANNING WITH BARN DOORS .............................. .75

SINGLE PIVOT DOOR .............................. .76


doors – 10mm & 12mm

door basics

Six door styles are available for Optos applications.

- 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
- The door is specified separate from the frame. See the Frames section for details
- 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)

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>
</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/FZJD)
- 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.

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

<table>
<thead>
<tr>
<th>Glass Pivot Door (FZNP/FZDP/FXNP/FXDP)</th>
<th>Door Size</th>
<th>Clearance</th>
<th>Clearance when installed at Corner</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40” Wide</td>
<td>36 1/2”</td>
<td>36 1/2”</td>
</tr>
<tr>
<td></td>
<td>42” Wide</td>
<td>38 1/2”</td>
<td>38 1/2”</td>
</tr>
</tbody>
</table>

lever types:
- Jupiter
- Saturn

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

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

hinged door details

Left or right door swing is specified by the side the hinges are on when standing facing a single hinged door. Two door handle types are available.

The double hinged door has a patch lock assembly at the top of the left door when standing outside facing of door.
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 Range**
Distant from finished floor to bottom of handle is a constant regardless of the ceiling height.

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

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

<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

![Non Locking Diagram](image)

### Locking

![Locking Diagram](image)

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.
double barn door details

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

non-locking

locking

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 doors details**

*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.
doors – 10mm & 12mm

single pivot door

1.3” Vertical Frame

1.3” Door Stile

Minimal for Glass Strength

6mm and 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

New Patch Cover

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
corners & connections — 10mm & 12mm
corners & connections — 10mm & 12mm

OPTOS TO OPTOS CORNER CONNECTION BASICS . . . . . . . . . . . 83

OPTOS TO OPTOS CORNER CONNECTION WITH DOORS BASICS . . . 81

OPTOS TO DRYWALL CORNER CONNECTION BASICS . . . . . . . . 82

OPTOS TO ALTOS CORNER CONNECTION BASICS . . . . . . . . . . 83

OPTOS CONNECTIONS PLANNING RULES . . . . . . . . . . . . . . 86
Optos to Optos corners are available in two-, three- and four-way connections.

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

**Three-Way Corner Connection (FZCY3/FXCY3)**
- Provides the base and ceiling components for an off module three-way connection of pieces of glass
- This connection cannot be used for connections with doors

**Two-Way 90° Corner Connection (FZCY2/FXCY2)**
- Provides the base and ceiling components to connect two pieces of glass at 90°
- This corner cannot be used for connections with doors
Optos 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

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 outside 90˚ trim piece, 1 inside trim piece and connection hardware</td>
<td>1 vertical post</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 outside trim piece, 2 inside trim pieces, 1 top spacer and connection hardware</td>
<td>1 vertical post</td>
</tr>
</tbody>
</table>

### Three-Way Connection with Two Doors (FZCZ3B/FXCZ3B)
- Joins one piece of glass and two doors
- Available in two configurations:
  - Two doors at 90˚ (A) (Shown)
  - Two doors at 180˚ (B)

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cover trims; 1 top spacer; square steel tube post, connection hardware kits</td>
<td>Base channel assembly, ceiling spacer, glass</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 cover trims, 1 top spacer, square steel tube post, connection hardware kits</td>
<td>Base channel assembly, ceiling spacer, glass</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>What’s Included</th>
<th>What’s Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<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 (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
optos to altos corner connection basics (continued)

three-way and four-way connections

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

**Three-Way Connection**
with Altos – Two Optos at 180°
(FZCA3B/FXCA3B)
Connects two Optos walls at 180° to an Altos 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 Altos at 180°
(FZCA3D/FXCA3D)
Connects two Altos walls at 180° to an Optos 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 (FZFCF2)
- Connects two straight runs one Optos, one Altos at an angle
- Connects two straight runs of Optos at an angle

Three-Way Articulating Connection (FZFCF3)
- Connects two angled runs of Optos with Altos demising
- Connects two angled runs of Optos with a straight demising wall of Optos
 optos connections planning rules

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

<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&quot;.</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

### optos connections planning rules (continued)

<table>
<thead>
<tr>
<th>restriction</th>
<th>solution 1</th>
<th>solution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram" /> A Three-Way Connection with Two Doors (FZCZ3B/FXCY3B) at 180° is restricted to a maximum door swing of 90°.</td>
<td><img src="image2.png" alt="Diagram" /> Plan with the Three-Way Corner Connection (FZCY3/FXCY3) to create a three-way glass connection and separate the doors (minimum 24°).</td>
<td><img src="image3.png" alt="Diagram" /> Place the door hinge on the opposite side to allow for 180° of swing.</td>
</tr>
<tr>
<td>90° 90'</td>
<td><strong>min. 24’</strong></td>
<td></td>
</tr>
</tbody>
</table>

### optos to altos

<table>
<thead>
<tr>
<th>restriction</th>
<th>solution 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.png" alt="Diagram" /> Back to back door openings into corridors or rooms should be avoided.</td>
<td><img src="image5.png" alt="Diagram" /> Change the swing direction of both doors by placing the hinges on the opposite side.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image6.png" alt="Diagram" /> It is not recommended to use a hinged 180° swing door that swings into a hall.</td>
<td><img src="image7.png" alt="Diagram" /> Change the direction of the door swing so that it swings away from the hall and into the room.</td>
</tr>
</tbody>
</table>
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

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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 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

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 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 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
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
electrics
electrics

ELECTRICS BASICS ......................................................... 100

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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.

Power cannot be run through the top of the Barn door Rail.

The electrical panel should be placed on the opposite side.

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

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

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