

within

application guide

09.23.2024



teknion

what is within

what is within

what is within

Within is a system that utilizes a post and beam structure for defining spaces within an office environment.

WithIn™ creates an independent framework for both permanent and transitional spaces, allowing to adjust to new work behaviors and patterns. Teknion's extensive Architectural Interiors program makes it possible to configure workspaces with the dimensions, function, technology and visual/acoustic privacy required for an array of future possibilities.



what is within

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The following examples illustrate a few practical approaches to create various types of spaces with a focus on specific use cases that are supported by the options offered.

WithIn functions as a space division system that utilizes a post and beam framework as its primary element for defining a space. With a high degree of options to outfit the structural framework the function of a space can be adapted to a broad range of use cases.

collaborative

The WithIn system can be used to create spaces that are flexible and adaptive in nature. Utilizing sliding screens can designate a zone for collaboration and can be opened or closed to adjust the amount of visual privacy. Integrating worksurface can also add a casual feel while providing a space for both work and conversation.



private

When a space that demands more privacy infills can be used to create permanent walls that can be placed to serve as a visual block, while glass infills can be strategically added to allow light and visibility while defining the space.



lounge

The framework of WithIn can be used to define a space in an open floor plan that facilitates a lounge environment. Outfitting the layout with soft seating and tables completes the space for a more relaxed experience.

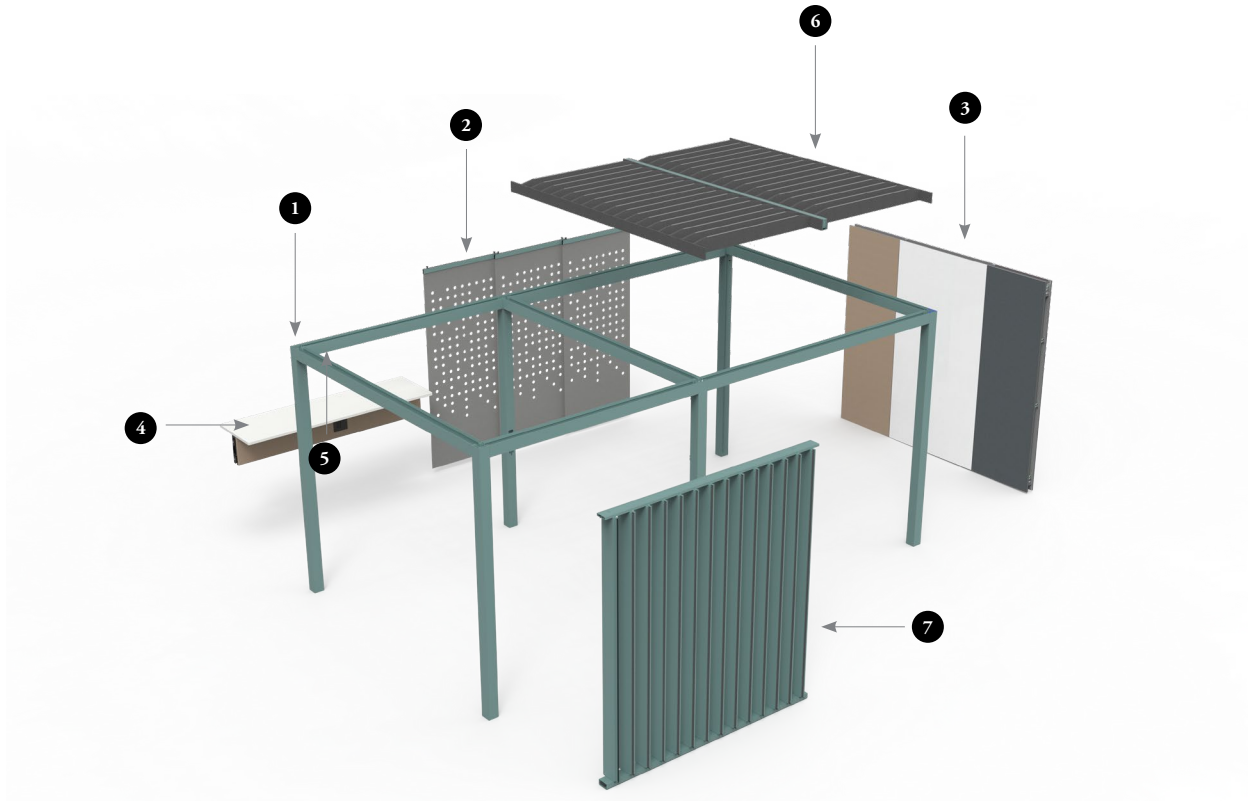


what is within

components

The following describes some core concepts to specifying with the WithIn program.

WithIn consists of the following seven component groups. The frame is the most foundational component as it sets the size and structure for all WithIn layouts. Each of the component groups have a unique function and multiple options for each to suit many applications.



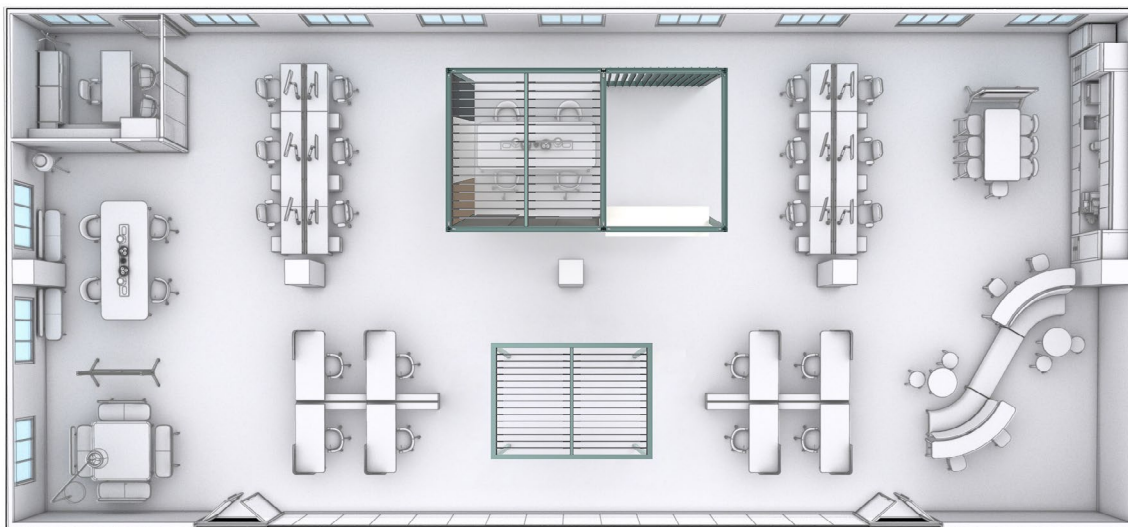
- 1 Frame**
Uses a post and beam as its main structural components while providing a support structure for all other elements of the Within system.
- 2 Sliding Screens**
Provides adaptable visual privacy while adding a soft natural wool felt texture to a space.
- 3 Infills**
Used to build walls that are fixed within the structural frame and are available in a variety of finish options, including solid and glass fascias.
- 4 Worksurfaces**
Provides a bar height worksurface at a 42" height that supports the use of technology with outlets and wire routing cut out options.
- 5 Electrical**
Includes power and data outlet options that can be incorporated into worksurfaces and select infills. Lighting can also be added to a space by adding task lights to select infills.
- 6 Baffles**
Provides acoustic sound absorption while adding a soft texture to a space with smooth felt finish.
- 7 Louvers**
Provide an adaptable visual privacy wall with vertical dynamic louvers that are manually adjustable.

office placement

Below describes two core planning concepts in relation to WithIn and the open office.

centralized planning

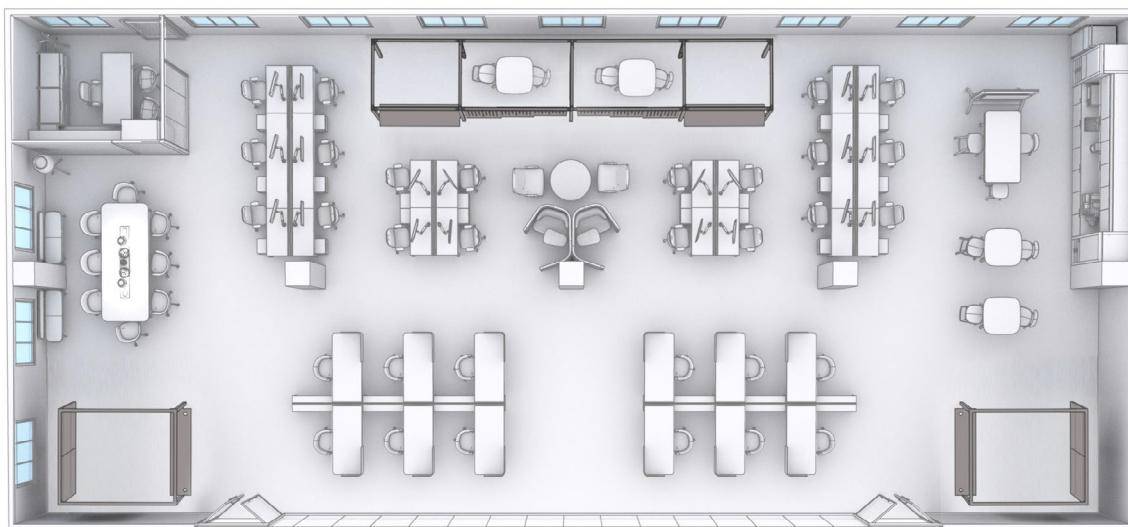
WithIn can be placed amongst furniture and workstations while acting as its own space division element. When centrally planning consider keeping an open side or adding a glass infill to maintain light transmission. Consider a screen or solid infill to increase visual privacy.



perimeter planning

WithIn can be placed along exterior and interior building walls. When planning against windows consider WithIn with an open side or glass infills to maintain light transmission.

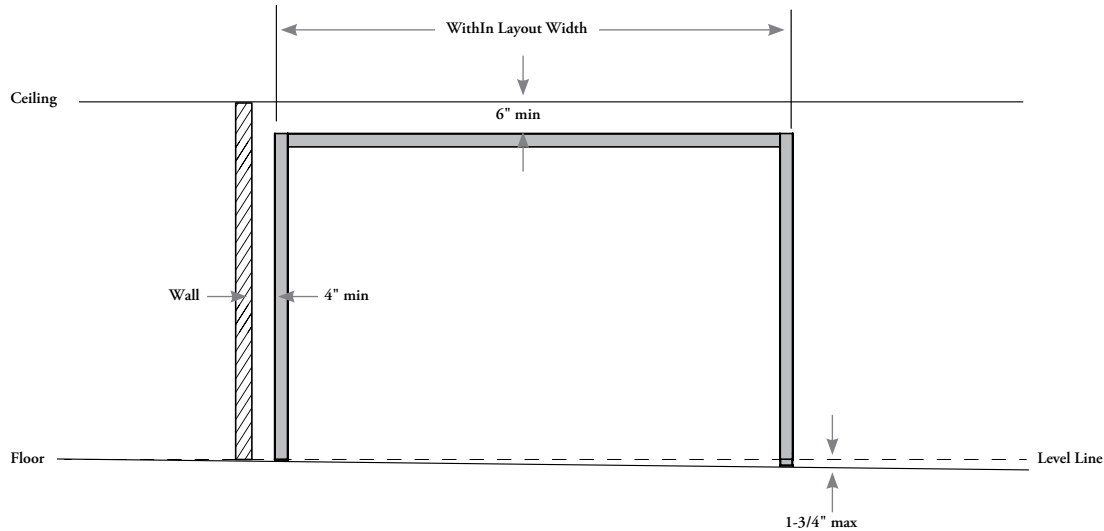
When planning near drywall consider WithIn with a solid infill.



The following describes the planning considerations for the WithIn program.

When creating a WithIn layout the following site conditions should be considered

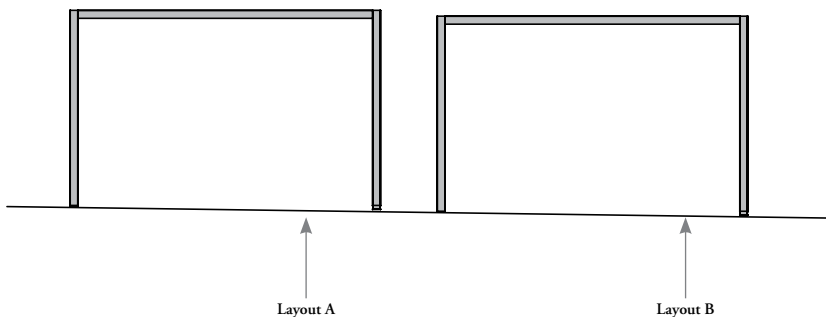
- The finish floor cannot deviate more than 1-3/4" from level over the width of a WithIn layout, sections with louvers have a maximum adjustment of 1-3/8"
- The layout must maintain a minimum distance of 4" from any wall or fixed structure for installation
- The layout must maintain a minimum distance of 6" above the layout to ensure adequate space for installation
- See *Glass Infill section* for specific details on achieving the full range of adjustment



The maximum leveling range is 1-3/4" for a single layout, for layouts with louvers the maximum adjustment is 1-3/8".

If the floor level deviates greater than these limits multiple Within layouts can be used to reset the leveling range and accommodate the floor deviation as long as no single layout has a floor that deviates greater than 1-3/4" over the course of the layout width.

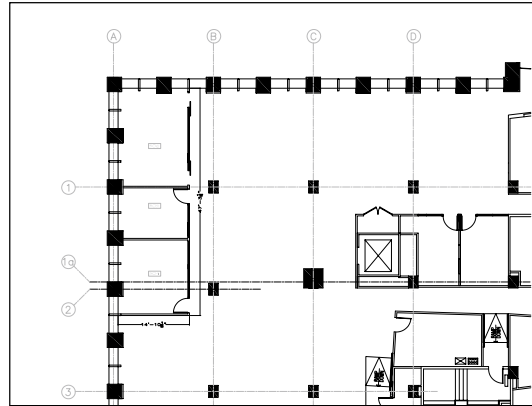
The following illustrates how to plan in a space the has a floor that deviates greater than 1-3/4":



how to specify within

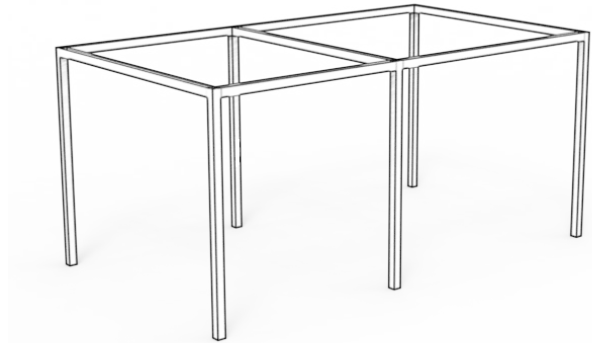
Step 1 – Footprint

First review site drawings and coordinate design with building structural elements such as walls, glass columns, electrical feeds, building architecture and other furnishings within a space.



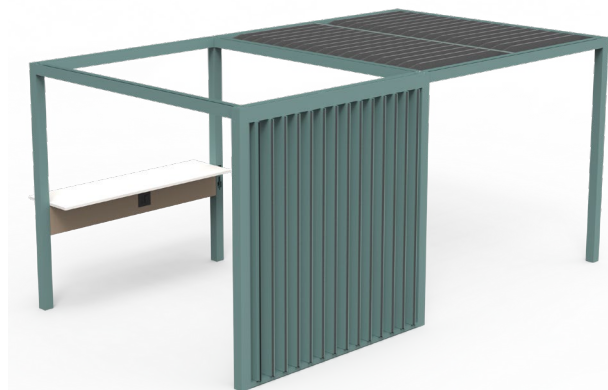
Step 2 – Frame

Determine the footprint of the WithIn layout that will fit the space and will be proportionally appropriate for the intended infills and furnishings.



Step 3 – Worksurfaces, Louvers and Baffles

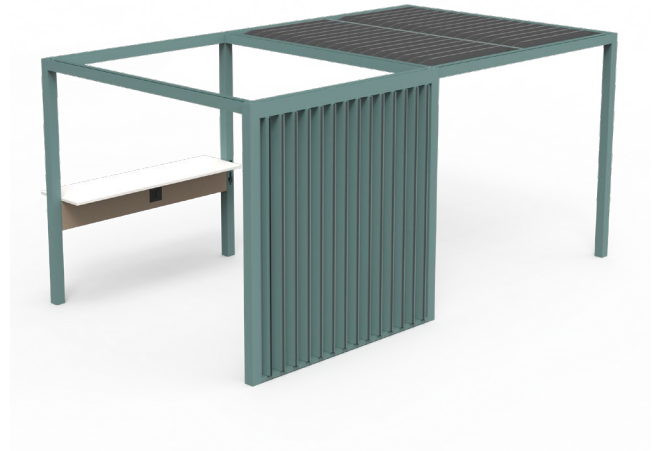
Determine the functional intent of each space and place any worksurface and Louvers in the framework if desired. Place Baffles to any Beams frame if desired.



how to specify within

Step 4 – Infills

Determine what types of infills will be used for each of the post to post openings on each side of the framework and determine the appropriate infill and material for each location.

*Step 5 – Electrics*

Review all infills and worksurface elements and determine if outlets and lighting will be required. Confirm if power can be fed from the floor or ceiling and determine cable lengths required.



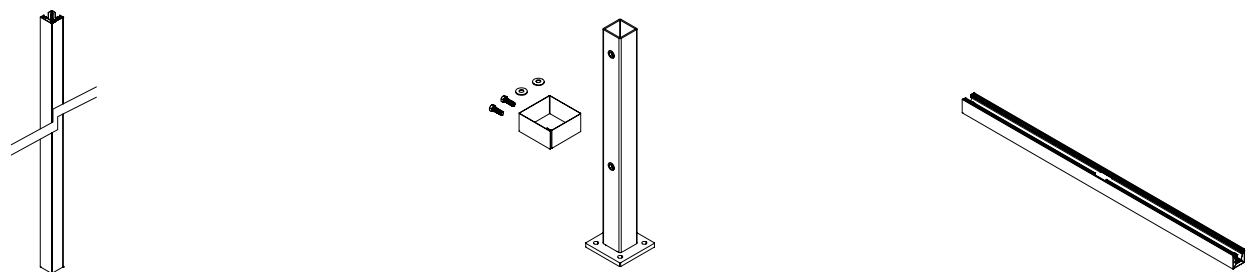
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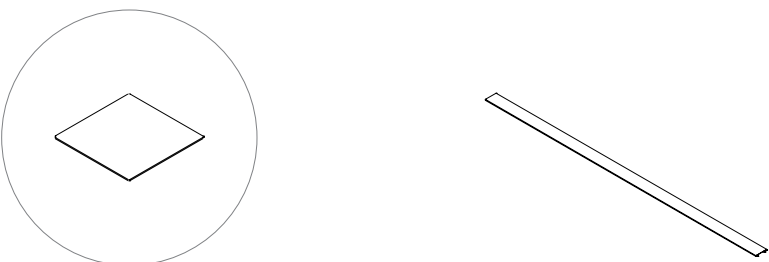
FRAMES	29
INFILL, WALL FASCIAS	41
INFILL, GLASS	71
SCREENS & LOUVERS	77
WORKSURFACES	99
BAFFLES	107
LIGHTING, ELECTRICS & COMMUNICATIONS	123

frames product map

F J S P S Structural Post F J S P W Floor Weldment F J S B K Structural Beam Kit



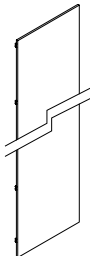
F J S P C Structural Post Top Cap F J S B C Structural Beam Cover



infill, wall fascias product map

Portrait

F J F P M N Portrait Solid Fascia
- Monolithic



F J F P M S M Portrait Solid Fascia - Mid-Split
Monolithic, Level 1



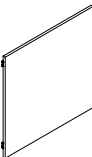
F J F P M S 2 Portrait Solid Fascia
- Mid-Split, Level 2



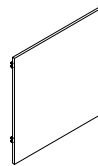
F J F P B S M Portrait Solid Fascia - Bi-Segmented
Monolithic, Level 1



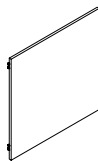
F J F P B S 2 Portrait Solid Fascia
- Bi-Segmented, Level 2



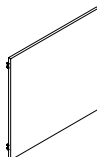
F J F P T S M Portrait Solid Fascia - Tri-Segmented
Monolithic, Level 1



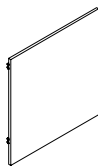
F J F P T S 2 Portrait Solid Fascia
- Tri-Segmented, Level 2



F J F P T S 3 Portrait Solid Fascia
- Tri-Segmented, Level 3



F J F P T W M Portrait Solid Fascia - Task Wall
Monolithic, Level 1



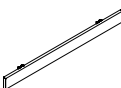
F J F P T W 2 Portrait Solid Fascia - Task Wall,
Level 2



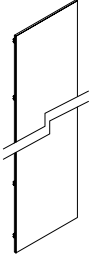

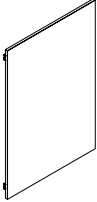
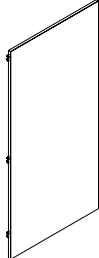
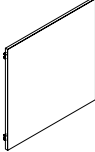
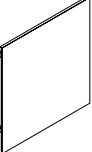
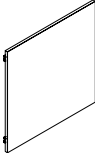
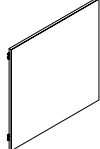
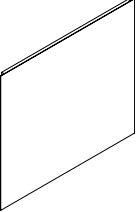
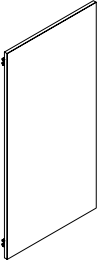
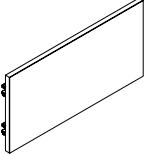
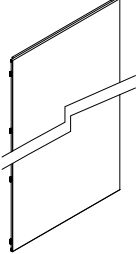
F J F P T W 3 Portrait Solid Fascia - Task Wall,
Level 3



F J F P B Portrait Base Fascia



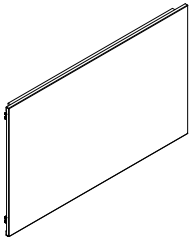
infill, wall fascias product map

Portrait	F J F P R M N Portrait Fabric Wrapped Fascia - Monolithic	F J F P R M S M Portrait Fabric Wrapped Fascia - Mid-Split Monolithic, Level 1	F J F P R M S 2 Portrait Fabric Wrapped Fascia - Mid-Split, Level 2
			
	F J F P R B S M Portrait Fabric Wrapped Fascia - Bi-Segmented Monolithic, Level 1	F J F P R B S 2 Portrait Fabric Wrapped Fascia - Bi-Segmented, Level 2	F J F P R T S M Portrait Fabric Wrapped Fascia - Tri-Segmented Monolithic, Level 1
			
	F J F P R T S 2 Portrait Fabric Wrapped Fascia - Tri-Segmented, Level 2	F J F P R T S 3 Portrait Fabric Wrapped Fascia - Tri-Segmented, Level 3	F J F P R T W M Portrait Fabric Wrapped Fascia - Task Wall Monolithic, Level 1
			
	F J F P R T W 2 Portrait Fabric Wrapped Fascia - Task Wall, Level 2	F J F P R T W 3 Portrait Fabric Wrapped Fascia - Task Wall, Level 3	F J F P A M N Portrait Acoustic Tackable Fascia - Monolithic
			

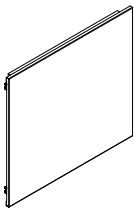
infill, wall fascias product map

Portrait

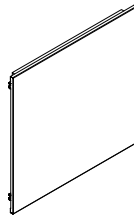
F J F P A T S 2 Portrait Acoustic
Tackable Fascia - Tri-
Segmented, Level 2



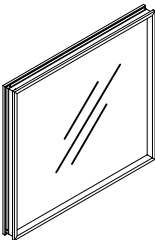
F J F P A M S 2 Portrait Acoustic
Tackable Fascia - Mid-
Split, Level 2



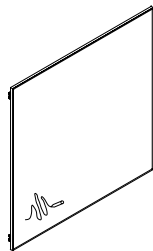
F J F P A T W 2 Portrait Acoustic
Tackable Fascia - Task
Wall, Level 2



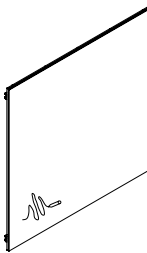
F J F P G C S Portrait Glass Fascia
- Single Centered,
Square Corner



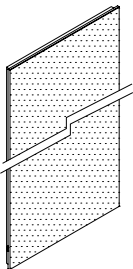
F J F P Y T W 2 Portrait Framed
Backpainted Glass
Markerboard - Task
Wall, Level 2



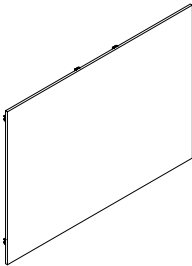
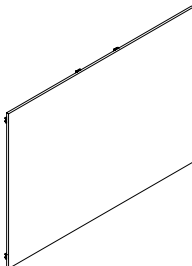
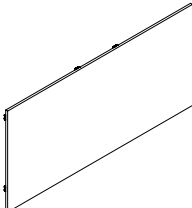
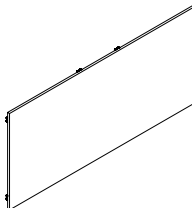

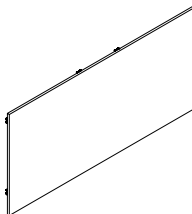
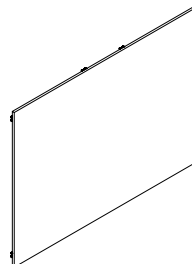
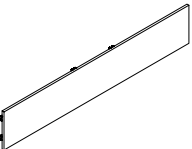
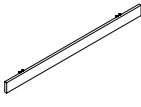
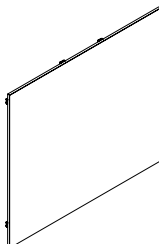

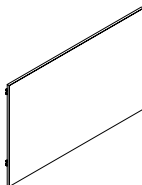
F J F P X T W 2 Portrait
Frameless Backpainted
Glass Markerboard -
Task Wall, Level 2



F J F P M P M N Portrait Micro
Perforated Metal
Acoustic Fascia -
Monolithic

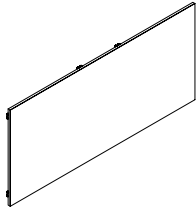


infill, wall fascias product map

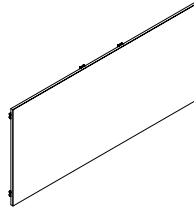
Landscape	F J F L M S M Landscape Solid Fascia - Mid-Split Monolithic, Level 1	F J F L M S 2 Landscape Solid Fascia - Mid-Split, Level 2	F J F L T S M Landscape Solid Fascia - Tri-Segmented Monolithic, Level 1
			
	F J F L T S 2 Landscape Solid Fascia - Tri-Segmented, Level 2	F J F L T S 3 Landscape Solid Fascia - Tri-Segmented, Level 3	F J F L T W M Landscape Solid Fascia - Task Wall Monolithic, Level 1
			
	F J F L T W 2 Landscape Solid Fascia - Task Wall, Level 2	F J F L T W 3 Landscape Solid Fascia - Task Wall, Level 3	F J F L B Landscape Base Fascia
			
	F J F L R M S M Landscape Fabric Wrapped Fascia - Mid-Split Monolithic, Level 1	F J F L R M S 2 Landscape Fabric Wrapped Fascia - Mid-Split, Level 2	F J F L R T S M Landscape Fabric Wrapped Fascia - Tri-Segmented Monolithic, Level 1
			

infill, wall fascias product map

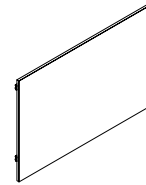
**F J F L R T S 2 Landscape Fabric
Wrapped Fascia -
Tri-Segmented, Level 2**



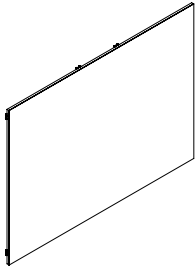
**F J F L R T S 3 Landscape Fabric
Wrapped Fascia - Tri-
Segmented, Level 3**



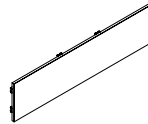
**F J F L R T W M Landscape
Fabric Wrapped
Fascia - Task Wall
Monolithic, Level 1**



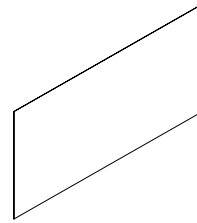
**F J F L R T W 2 Landscape Fabric
Wrapped Fascia - Task
Wall, Level 2**



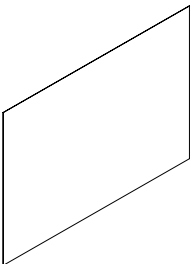
**F J F L R T W 3 Landscape Fabric
Wrapped Fascia - Task
Wall, Level 3**



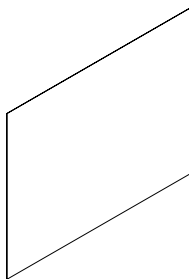
**F J F L A T S 2 Landscape
Acoustic Tackable
Fascia - Tri-
Segmented, Level 2**



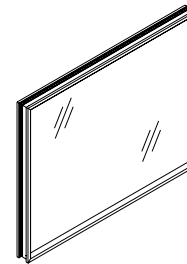
**F J F L A M S 2 Landscape
Acoustic Tackable
Fascia - Mid-Split,
Level 2**



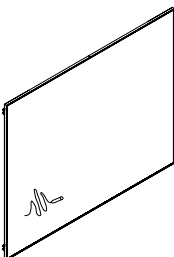
**F J F L A T W 2 Landscape
Acoustic Tackable
Fascia - Task Wall,
Level 2**



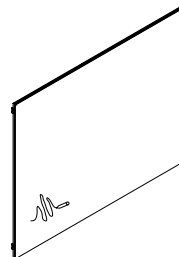
**F J F L G C S Landscape Glass
Fascia - Single
Centered, Square
Corner**



**F J F L Y T W 2 Landscape
Framed Backpainted
Glass Markerboard -
Task Wall, Level 2**

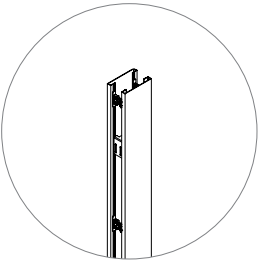
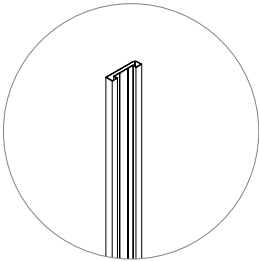
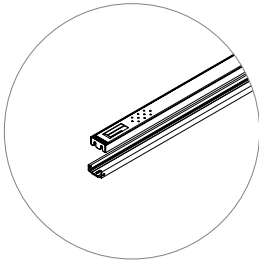
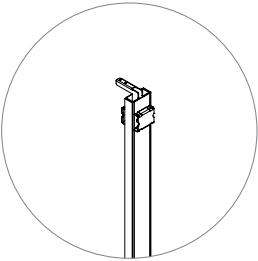
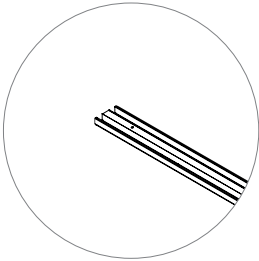
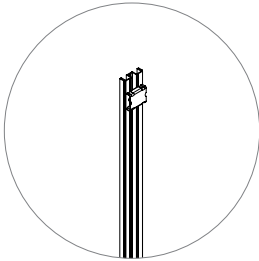
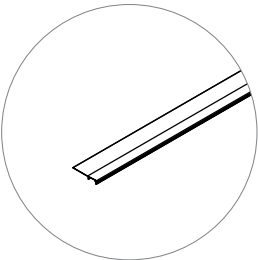


**F J F L X T W 2 Landscape
Frameless Backpainted
Glass Markerboard -
Task Wall, Level 2**



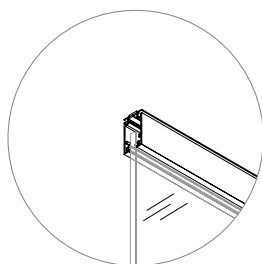
Landscape

infill, wall fascias product map

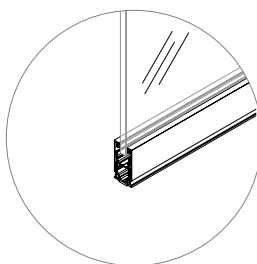
Frame Kits & Components	F J F P A K Aluminum Fascia Kit	F J F W E Finished Wall End	F J S H P Horizontal Rail Package
			
	F J S V P Vertical Post Package	F J S T H Half Horizontal Transition	F J S T V Half Vertical Transition
			
	F J S W G Wall Gasket		
			

infill, glass product map

F J H C F **Glass Infill Horizontal Ceiling Frame**



F J H B F **Glass Infill Horizontal Base Frame**



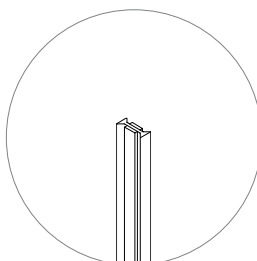
F J H G A **Glass Infill - 10mm Thickness**



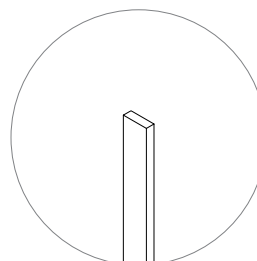
F J H G B **Glass Infill - 12mm Thickness**



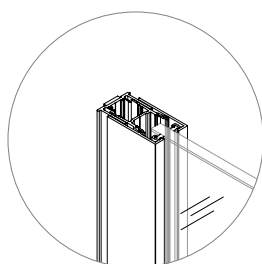
F J H C P **Glass Infill Connector, Clear Plastic**



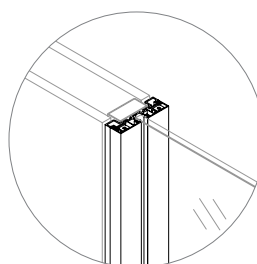
F J H C T **Glass Infill Connector, Tape**



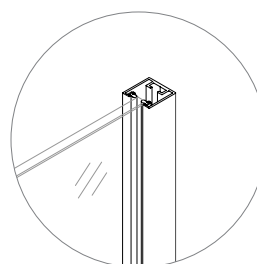
F J H W S **Glass Infill Wall Start**



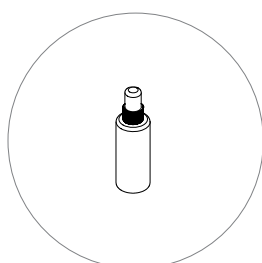
F J H T F I **Glass Infill to Wall Fascia Transition**



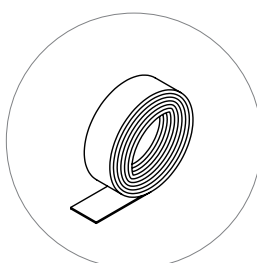
F J H W E **Glass Infill Wall End**



F C A K **Activator Kit**

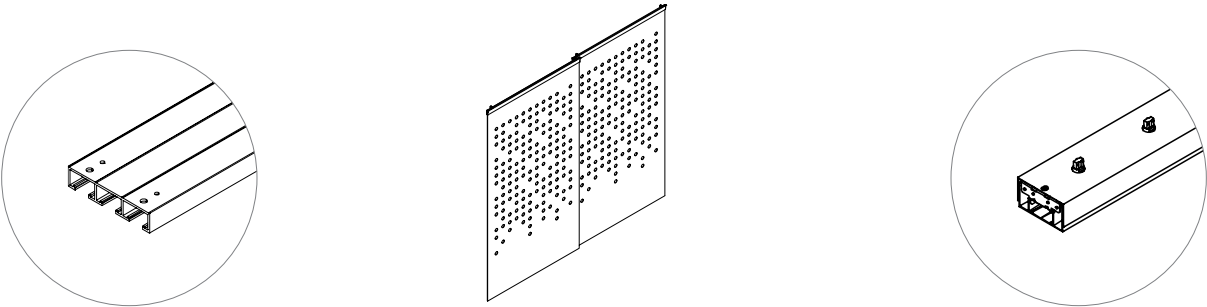


F J F T **Foam Tape**

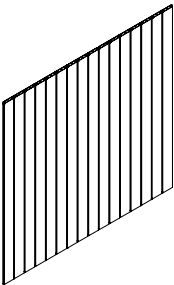


screens & louvers product map

F J S T K Screen Track Framework Kit F J T F S Patterned Felt Screen F J V F Louvers Frame Kit

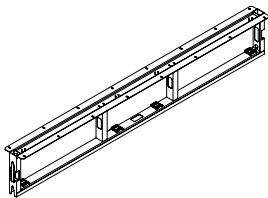


F J V R Louvers

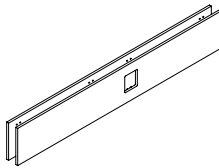


worksurfaces product map

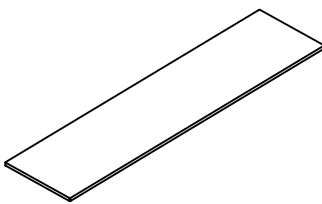
F J T W F K Worksurface
Framework Kit



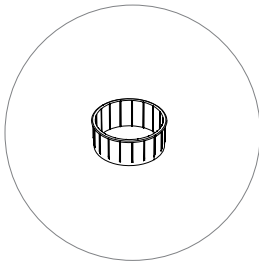
F J T L F P Fascia Package for Bar
Height Worksurface



F J T W S F Bar Height
Worksurface

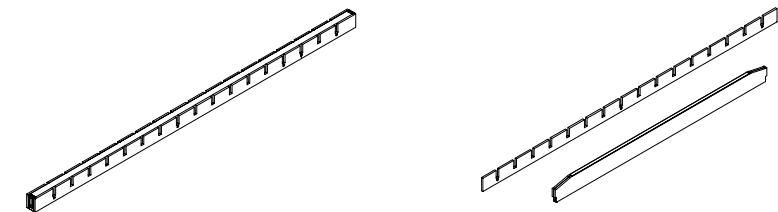


F J T W D G Worksurface Ring
Grommet



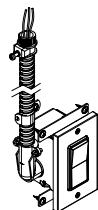
baffles product map

F J B B Crossbeam F J B F Baffles

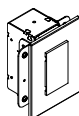


lighting, electrics & communications product map

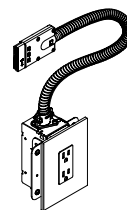
E L S F J Light Switch



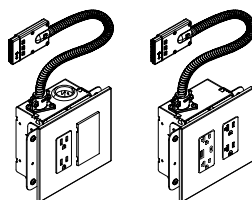
E P D M C F J Power Data
Vertical Module -
Communication



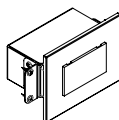
E P D M S F J Power Data Vertical
Module - Single



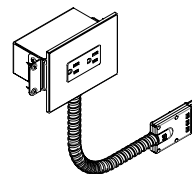
E P D M D F J Power Data Vertical
Module - Double



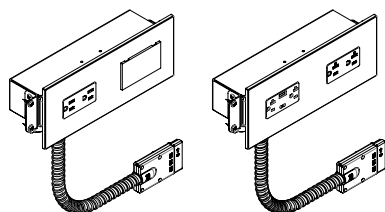
E P D H C F J Power Data
Horizontal Module -
Communication



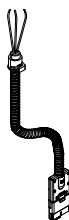
E P D H S F J Power Data
Horizontal Module -
Single



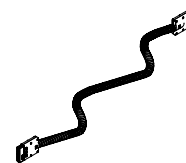
E P D H D F J Power Data
Horizontal Module -
Double



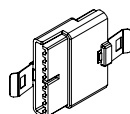
E P D S C F J Power Data Starter
Cable



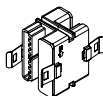
E P D C H F J Power Data
Connecting Harness



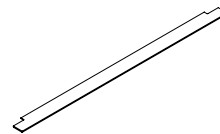
E P D I C F J Power Data Inline
Connector



E P D D B F J Power Data
Four-Way Splitter



E L W M L F J Wall-Mounted Light

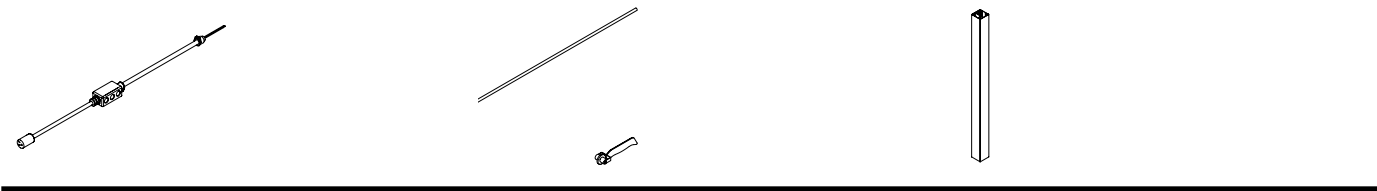


lighting, electrics & communications product map

E L P F F J Light Power Feed

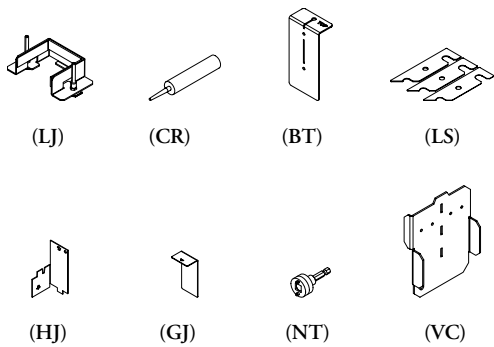
E L W M G F J Landscape Light
Wire Management

E P Q F J Power Pole

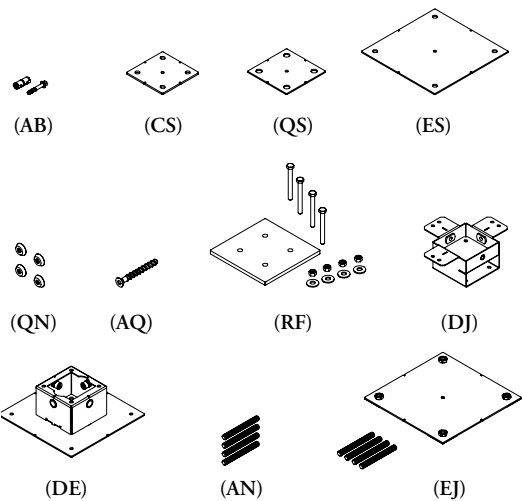


accessories product map

F J I T Installation Tools



F J I N Connection Hardware



frames

frames

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PLANNING WITH POST & BEAM CONNECTIONS36

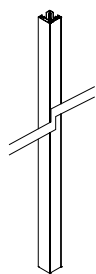
PLANNING FOR FRAME ANCHORING37

frame basics

The frame consists of the following discrete elements.

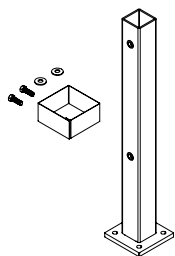


Finishes: Accent, Mica, Foundation (excludes textured).



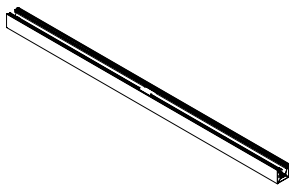
Structural Post (FJSPS)

- Includes:
 - Post
 - Cover
 - Floor Weldment
- Height: 96"
- Type:
 - Inline
 - Two-Way
 - Three-Way
 - Four-Way
- Optional Worksurface Attachment Prep
- Optional Electrical Cutout: 35" and/or 28"
- Cover Handed:
 - Two-Way Left or Right
 - Non-handed
- Worksurface Handed:
 - Left,
 - Right or Center,
 - Left and Right
- Anchors and Installation Tools sold separately



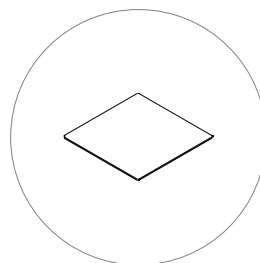
Floor Weldment (FJSPW)

- Includes: Standard Weldment for Floor Anchoring
- Options
 - 4"x4", Anchor (S)
 - 4-1/4" x 4-1/4", Anchor (T)
 - 4 1/4" x 4-1/4", Adhesion, Rod and Nut (U)
 - 8"x8", Adhesion, Rod and Nut (V)



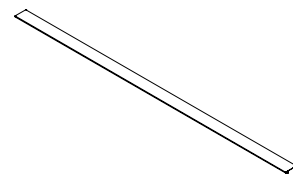
Structural Beam Kit (FJSBK)

- Includes: Beam
- Length: 40" - 144-7/8" (1/8" increments)
- Length determined by worksurface when applicable



Structural Post Top Cap (FJSPC)

- Includes: Cap



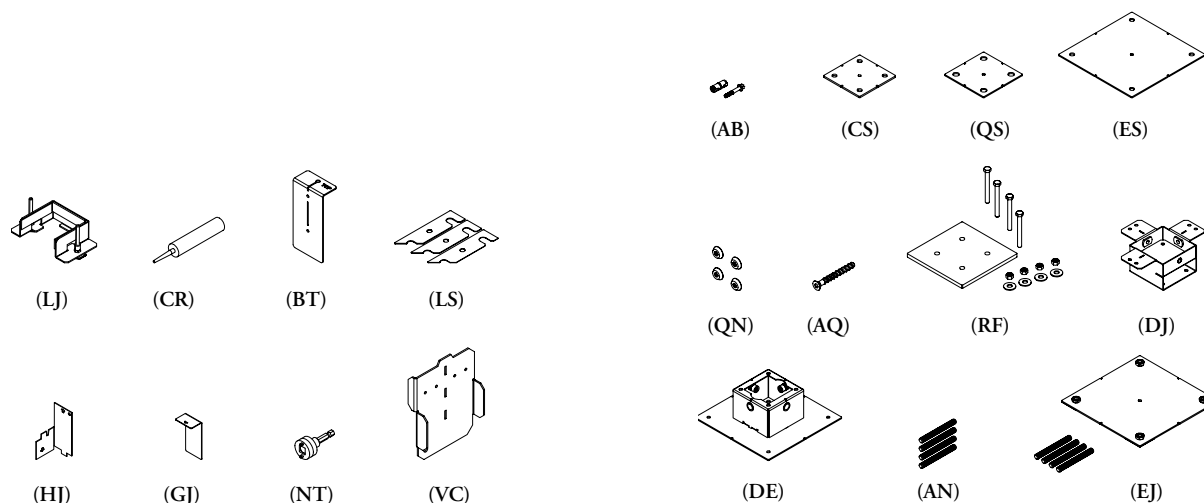
Structural Beam Cover (FJSBC)

- Includes: Cover
- Length: 40" - 144-7/8" (1/8" increments)
- Length determined by beam

The frame consists of the following discrete elements.



Available Accessories:



Installation Tools (FJIT)

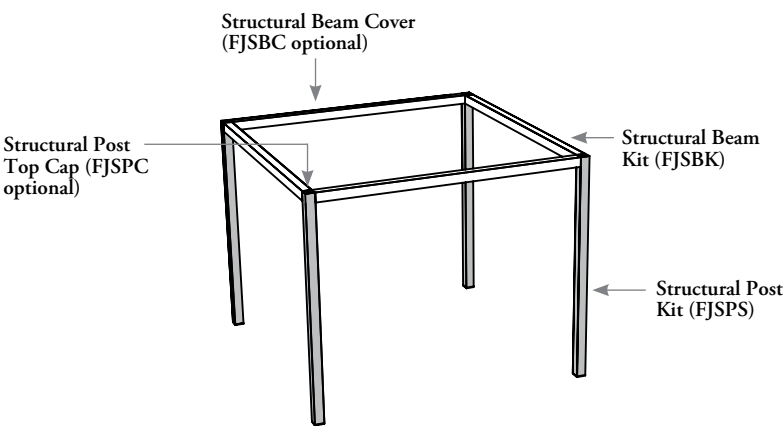
- Options available:
 - Vertical Post Leveling Jig Kit (LJ)
 - Concrete Repair Kit (CR)
 - Half Vertical, Half Horizontal Installation Jig Kit (HJ)
 - Glass Infill Installation Jig (GJ)
 - Leveling Shims (LS)
 - Nut Fastening Tool (NT)
 - Crossbeam Positioning Template (BT)
 - Louver Base and Ceiling Track Jig Kit (VC)

Connection Hardware (FJIN)

- Options available:
 - Concrete Anchor and Bolt Kit (4" x 4") (AB)
 - Concrete Bolt Kit (4-1/4" x 4-1/4") (AQ)
 - Vertical Post Carpet Spacer (4" x 4") (CS)
 - Vertical Post Carpet Spacer (4-1/4" x 4-1/4") (QN)
 - Vertical Post Carpet Spacer (8" x 8") (ES)
 - Raised Floor Kit (RF)
 - Vertical Post Drilling Jig (4" x 4") (DJ)
 - Vertical Post Drilling Jig (4-1/4" x 4-1/4" or 8" x 8") (DE)
 - Concrete Anchor and Nut Kit (8" x 8") (AN)
 - Nut Kit (4-1/4" x 4-1/4") (QN)
 - Anchor Installation Kit (8 x 8) (EJ)

planning frame layouts

The following illustrates possible configuration when building a frame.



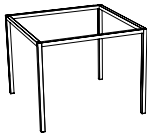
Every frame must have the following minimum number of posts and beams to build a frame for a WithIn layout:

- 4 x posts
- 4 x beams

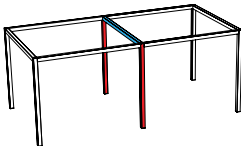
When creating larger configurations posts and beams can be shared.

The example below show a few examples.

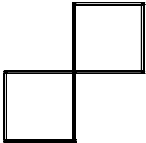
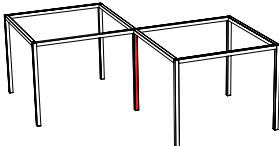
- Shared posts are highlighted in Red
- Shared beams are highlighted in Blue



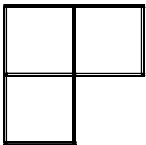
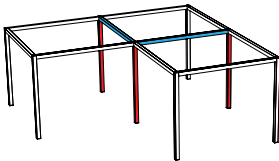
4 x Posts
4 x Beams



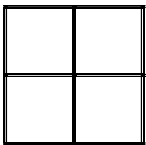
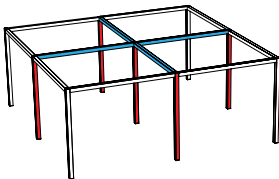
6 x Posts
7 x Beams



7 x Posts
8 x Beams



8 x Posts
10 x Beams

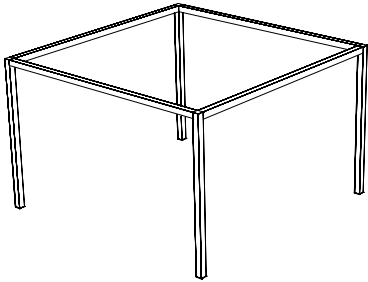


9 x Posts
12 x Beams

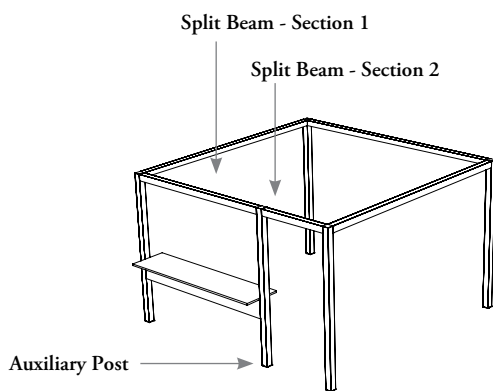
planning frame layouts (continued)

The following illustrates possible configuration when building a frame with the posts and beams.

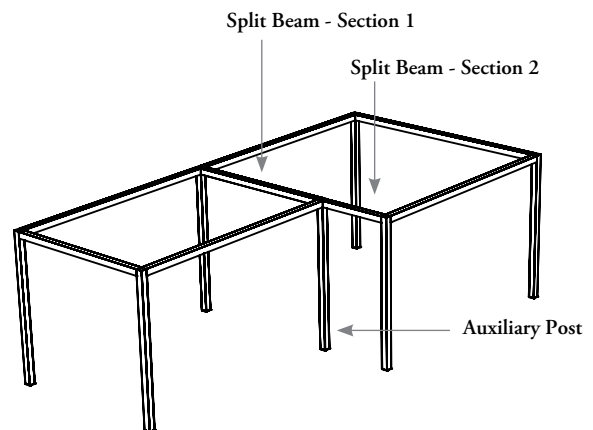
Frame layouts are built using squares and rectangles. Different sizes squares and rectangles can be combined to create larger layouts.



Auxiliary posts can be added to allow one side of a layout to be broken into smaller sections (Example 1) or be used when combining spaces that have a different widths (Example 2). Adding a post splits the beams into separate sections. No beam section can be less than 40" in length.



Example 1



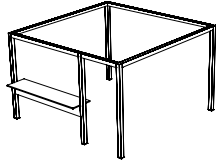
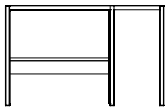
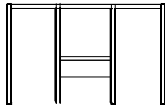
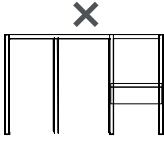
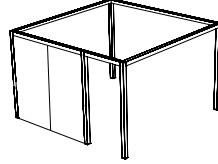
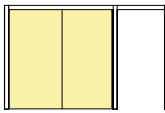
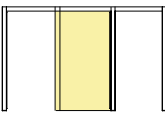
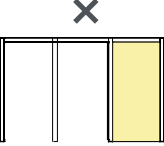
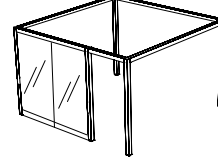
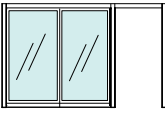
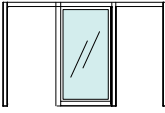
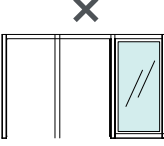
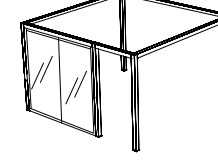

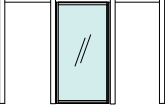
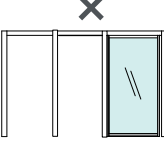
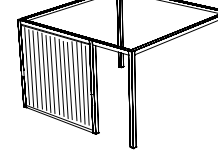
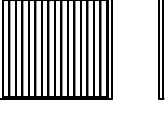
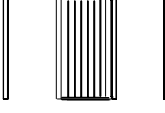
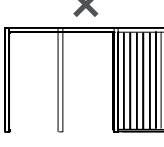
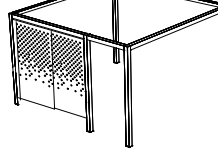

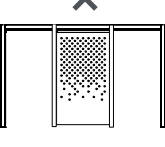
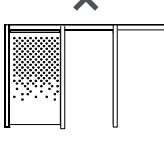
Example 2

planning frame layouts (continued)

The following illustrates possible configurations when building with axillary posts.

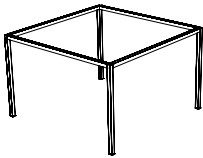
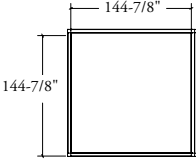
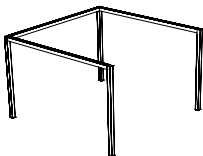
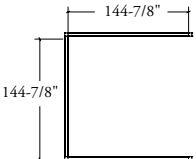
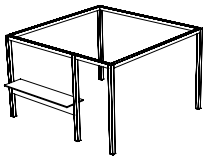
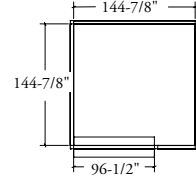
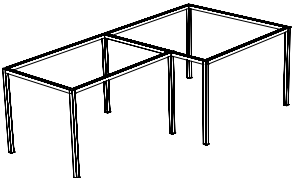
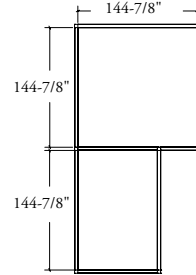
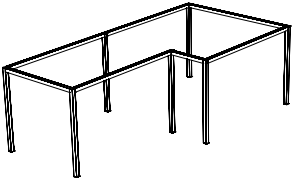
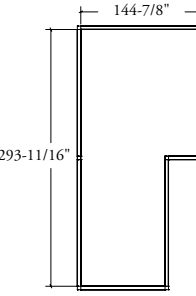
The following configurations are possible, for specific widths. See specific section for each option.

No layout can use two axillary posts if it creates an area with two sequential openings without an infill, see examples below.

 <p>Worksurfaces</p>	<div>    </div> <div> <p>1 x axillary post - worksurface 1 side</p> <p>2 x axillary posts - worksurface middle</p> <p>2 x axillary posts - worksurface 1 side</p> </div>
 <p>Infill - Wall</p>	<div>    </div> <div> <p>1 x axillary post - Infill 1 side</p> <p>2 x axillary posts - Infill middle</p> <p>2 x axillary posts - Infill 1 side</p> </div>
 <p>Infill - Wall Glass</p>	<div>    </div> <div> <p>1 x axillary post - Infill 1 side</p> <p>2 x axillary posts - Infill middle</p> <p>2 x axillary posts - Infill 1 side</p> </div>
 <p>Glass Infill</p>	<div>    </div> <div> <p>1 x axillary post - Infill 1 side</p> <p>2 x axillary posts - Infill middle</p> <p>2 x axillary posts - Infill 1 side</p> </div>
 <p>Louvers</p>	<div>    </div> <div> <p>1 x axillary post - Louvers 1 side</p> <p>2 x axillary posts - Louvers middle</p> <p>2 x axillary posts - Louvers 1 side</p> </div>
 <p>Screens</p>	<div>    </div> <div> <p>1 x axillary post - Screens 1 side</p> <p>2 x axillary posts - Screens middle</p> <p>2 x axillary posts - Screens 1 side</p> </div>

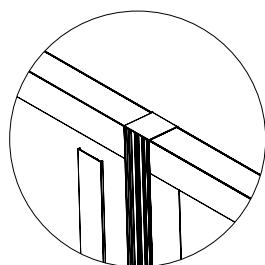
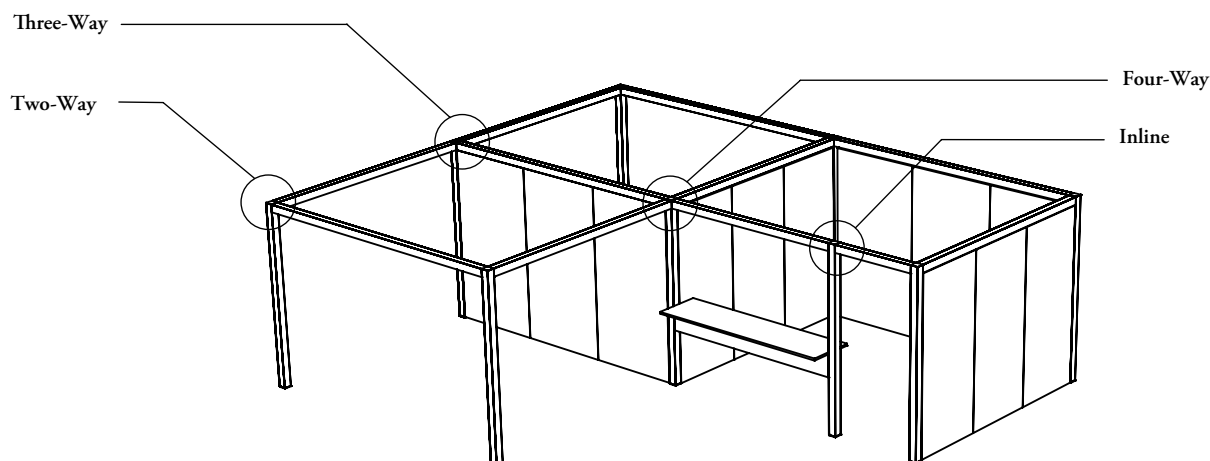
planning frame layouts (continued)

The following illustrates possible configuration when building a frame with the posts and beams.

✓	 	<p>The maximum size of any post to post opening is 144-7/8" x 144-7/8".</p>
✗	 	<p>A layout must have an enclosed space forming a square or rectangle.</p>
✓	 	<p>If a worksurface is shorter in length than the beam it is placed under an auxiliary post is required.</p>
✓	 	<p>If a smaller area is being placed adjacent to another area an auxiliary post can be used to split the beam in to two sections.</p>
✗	 	<p>Beams must create closed squares or rectangles. No run of beams can surpass 144-7/8" without a perpendicular cross beam.</p>

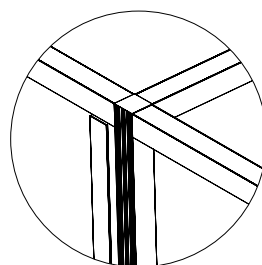
planning with post & beam connections

The following describes the various post connection types that can be used when creating frame layouts.



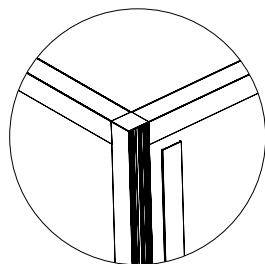
Inline - Non-Handed

Post front cover is always placed on one of the two sides perpendicular to the beams.



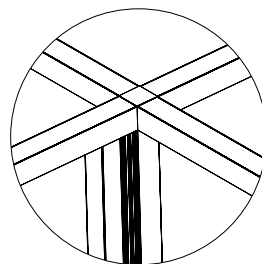
Three-Way - Non-handed

Post front cover is always on opposite side of the center beam.



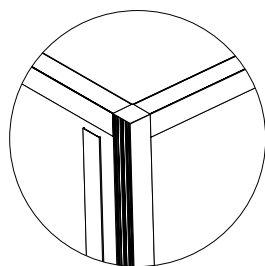
Two-Way - Right Hand

Post front cover is always on the outside perimeter oriented on the right side when facing the corner.



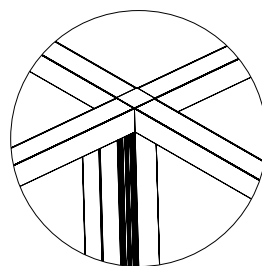
Four-Way - Non-handed

Post cover can be placed to align with any of the four beam directions.



Two-Way - Left Hand

Post front cover side is always on outside perimeter oriented on the left side when facing the corner.



Cover (FJSBC) and Post Top Cap (FJSPC)

Beam and Post Top Cap are optional.

application guide

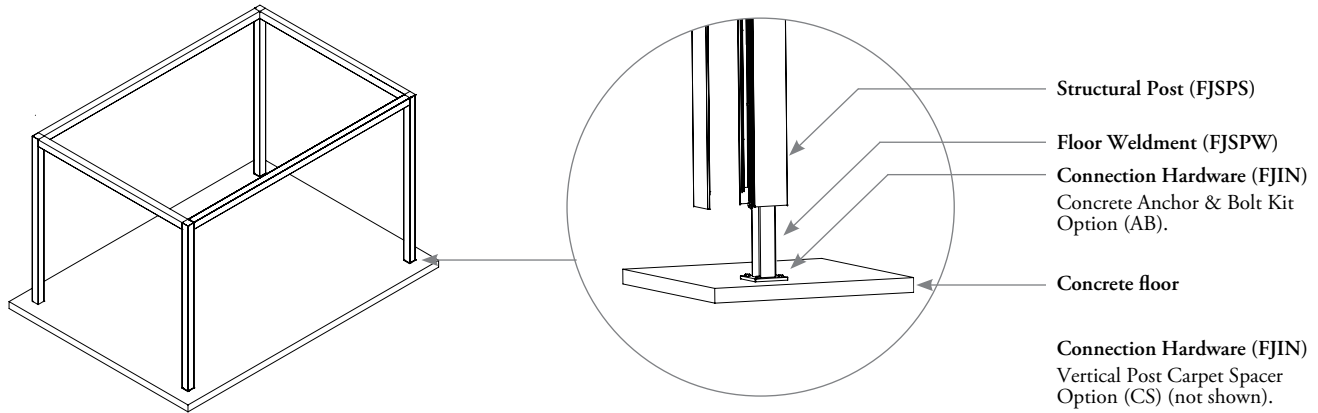
planning for frame anchoring

The following describes two options for anchoring the frame to the floor.

All WithIn structures use one of the following anchoring methods for each independent layout configuration.

surface mounted

The following depicts the standard anchorage method for the WithIn system. The Structural Post (FJSPS) and Floor Weldment (FJSPW) are sold separately. Anchoring is to be completed directly to the concrete floor. Use the Connection Hardware (FJIN) option (CS) Carpet Spacer where applicable.



Installation Tools / Connection Hardware not included and can be ordered separately:

- Connection Hardware (FJIN) option (AB) Concrete Anchor & Bolt Kit 1 x per Post
- Use 1 x Connection Hardware (FJIN) option (CS) Carpet Spacer per Post to mark the Structural Post Kits final install location prior to the installation of the carpet when applicable
- Use 1 x Connection Hardware (FJIN) option (DJ) Vertical Post Drilling Jig for every six Posts ordered or per floor layout if less than six are required
- Use 1 x Installation Tools (FJIT) option (LJ) Vertical Post Leveling Jig Kit for every four posts ordered
- Use 1 x Installation Tools (FJIT) option (CR) Concrete Repair Kit should be included per floor layout
- Include 1x Installation Tools (FJIT) option (HJ) Half Vertical Half Horizontal Install Jig per layout that include wall infills
- Include 2x Installation Tools (FJIT) option (GJ) Glass Infill Installation Jig per layout that include glass infills

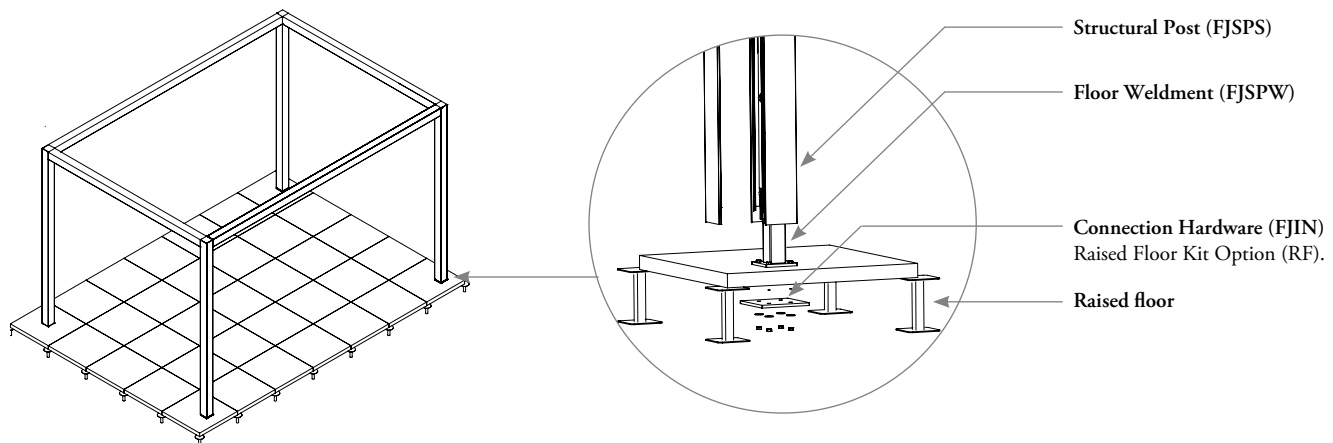
planning for frame anchoring (continued)

raised floor mounted

When planning to install Within on a raised floor the placement of the Within layout should be done with reference to the raised floor tile location plans to ensure the post can be placed on a tile and not directly over a raised floor pedestals.

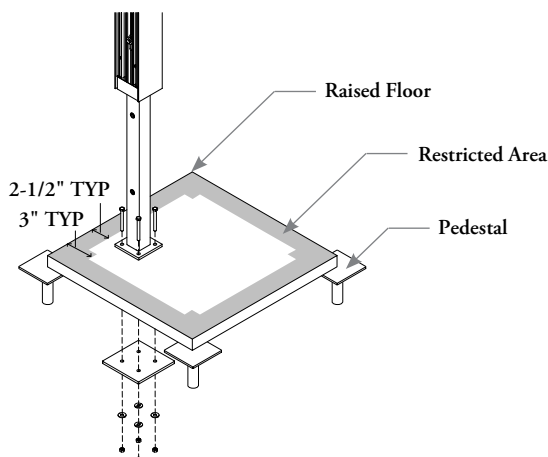
The following depicts the optional anchoring method for the Structural Post (FJSPS) and Floor Weldment (FJSPW) for raised floor applications.

The Connection Hardware (FJIN) option Raised Floor Kit (RF) package needs to be specified separately 1x per Post. It connects to the steel anchor plate that is included with the Post.



- Installation hardware is not included
- Anchoring of all posts is required
- Use 1 x Connection Hardware (FJIN) option (CS) Carpet Spacer per Post to mark the Structural Post Kits final install location prior to the installation of the carpet when applicable
- Use 1 x Connection Hardware (FJIN) option (DJ) Vertical Post Drilling Jig for every six posts ordered or per floor layout if less than six are required
- Use 1 x Installation Tools (FJIT) option (LJ) Vertical Post Leveling Jig Kit for every four posts ordered
- Include 1 x Installation Tools (FJIT) option (HJ) Half Vertical Half Horizontal Install Jig per layout that include wall infills
- Include 2 x Installation Tools (FJIT) option (GJ) Glass Infill Installation Jig per layout that include glass infills

Floor weldment cannot be anchored to the restricted area on a raised floor tile, as shown below:




infill, wall fascias

infill, wall fascias

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application guide

infill, wall fascias overview

	Walls Types	
Monolithic		Ideal for floor to beam fascias with no horizontal reveal lines.
Bi-Segmented		Ideal for creating a clerestory effect.
Mid-Split		Ideal for accommodating large landscape fascia up to 120" (material dependent).
Task Wall		Ideal for integrating the task wall options (tackable and marker boards).
Tri-Segmented		Ideal for datum coordination.

infill, wall fascias overview (continued)

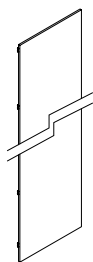
	Walls Types	
Full Glass		Ideal for full base to beam glass.
Mid-Split Glass		Ideal for coordinating with mid-split solid and fabric fascias.

portrait monolithic basics

The portrait monolithic infill fascias include the following options.

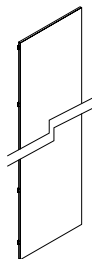


Finishes: Fascia Laminates, Flintwood
Fabrics: Architectural, COM



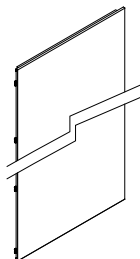
Portrait Solid Fascia - Monolithic (FJFPMN)

- Height: 92"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



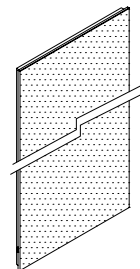
Portrait Fabric Wrapped Fascia-Monolithic (FJFPRMN)

- Height: 92"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



Portrait Acoustic Tackable Fascia - Monolithic (FJFPAMN)

- Height: 92"
- Width: 12" - 48" (1/8" increments)



Portrait Micro Perforated Metal Acoustic Fascia - Monolithic (FJFPMPMN)

- Height: 92"
- Width: 12" - 44" (1/8" increments)

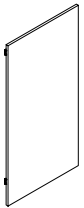
application guide

portrait mid-split basics

The portrait mid-split infill fascias include the following options.



Finishes: Fascia Laminates, Flintwood
Fabrics: Architectural, COM



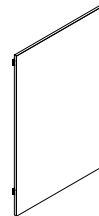
Portrait Solid Fascia - Mid-Split Monolithic, Level 1 (FJFPMSM)

- Height: 48"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



Portrait Solid Fascia - Mid-Split, Level 2 (FJFPMS2)

- Height: 44"
- Width: 12" - 48" (1/8" increments)



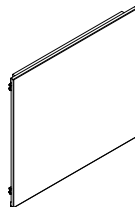
Portrait Fabric Wrapped Fascia - Mid Split Monolithic, Level 1 (FJFPRMSM)

- Height: 48"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



Portrait Fabric Wrapped Fascia - Mid-Split, Level 2 (FJFPRMS2)

- Height: 44"
- Width: 12" - 48" (1/8" increments)



Portrait Acoustic Tackable Fascia - Mid-Split, Level 2 (FJFPAMS2)

- Height: 44"
- Width: 12" - 48" (1/8" increments)

portrait bi-segmented basics

The portrait bi-segmented infill fascias include the following options.

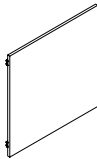


Finishes: Fascia Laminates, Flintwood
Fabrics: Architectural, COM



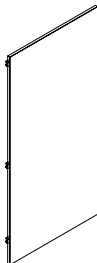
Portrait Solid Fascia - Bi-Segmented Monolithic, Level 1 (FJFPBSM)

- Height: 62"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



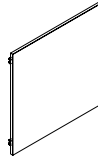
Portrait Solid Fascia - Bi-Segmented, Level 2 (FJFPBS2)

- Height: 30"
- Width: 12" - 48" (1/8" increments)



Portrait Fabric Wrapped Fascia - Bi-Segmented Monolithic, Level 1 (FJFPRBSM)

- Height: 62"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF
 - Horizontal - Single, Double 35" AFF



Portrait Fabric Wrapped Fascia - Bi-Segmented, Level 2 (FJFPRBS2)

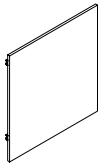
- Height: 30"
- Width: 12" - 48" (1/8" increments)

portrait tri-segmented basics

The portrait tri-segmented infill fascias include the following options.

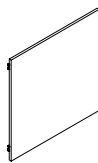


Finishes: Fascia Laminates, Flintwood
Fabrics: Architectural, COM



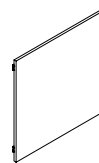
**Portrait Solid Fascia -
Tri-Segmented Monolithic, Level 1
(FJFPTSM)**

- Height: 32"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF



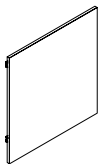
**Portrait Solid Fascia -
Tri-Segmented, Level 2 (FJFPTS2)**

- Height: 30"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Horizontal - Single, Double 35" AFF



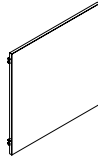
**Portrait Solid Fascia -
Tri-Segmented, Level 3 (FJFPTS3)**

- Height: 30"
- Width: 12" - 48" (1/8" increments)



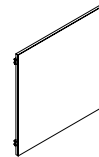
**Portrait Fabric Wrapped Fascia -
Tri-Segmented Monolithic, Level 1
(FJFPRTSM)**

- Height: 32"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical - Single, Double 15" AFF



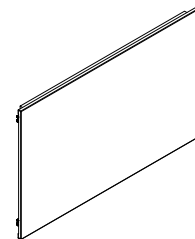
**Portrait Fabric Wrapped
Fascia - Tri-Segmented, Level 2
(FJFPRTS2)**

- Height: 30"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Horizontal - Single, Double 35" AFF



**Portrait Fabric Wrapped
Fascia - Tri-Segmented, Level 3
(FJFPRTS3)**

- Height: 30"
- Width: 12" - 48" (1/8" increments)



**Portrait Acoustic Tackable
Fascia- Tri-Segmented, Level 2
(FJFPATS2)**

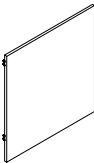
- Height: 30"
- Width: 12" - 48" (1/8" increments)

portrait task wall basics

The portrait task wall infill fascias include the following options.



Finishes: Fascia Laminates, Flintwood
Fabrics: Architectural, COM



Portrait Solid Fascia - Task Wall Monolithic, Level 1 (FJFPTWM)

- Height: 32"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF



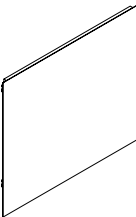
Portrait Solid Fascia - Task Wall, Level 2 (FJEPTW2)

- Height: 48"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Horizontal Single, Double 35" AFF



Portrait Solid Fascia - Task Wall, Level 3 (FJFPTW3)

- Height: 12"
- Width: 12" - 48" (1/8" increments)



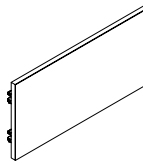
Portrait Fabric Wrapped Fascia - Task Wall Monolithic, Level 1 (FJFPRTWM)

- Height: 32"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF



Portrait Fabric Wrapped Fascia - Task Wall, Level 2 (FJFPRTW2)

- Height: 48"
- Width: 12" - 48" (1/8" increments)
- Electrical Cutouts:
 - Horizontal Single, Double 35" AFF



Portrait Fabric Wrapped Fascia - Task Wall, Level 3 (FJFPRTW3)

- Height: 12"
- Width: 12" - 48" (1/8" increments)

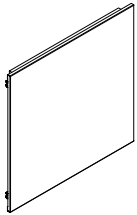
portrait task wall basics (continued)

The portrait task wall infill fascias include the following options.



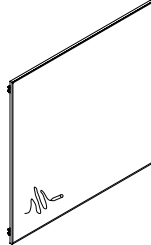
Finishes: Select Backpainted Glass Colors
Select Paint Colors

Fabrics: Architectural, COM



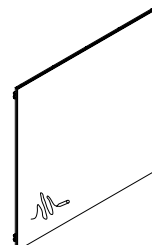
Portrait Acoustic Tackable Fascia - Task Wall, Level 2 (FJFPATW2)

- Height: 48"
- Width: 12" - 48" (1/8" increments)



Portrait Framed Backpainted Glass Markerboard - Task Wall, Level 2 (FJFPYTW2)

- Height: 48"
- Width: 12" - 48" (1/8" increments)



Portrait Frameless Backpainted Glass Markerboard - Task Wall, Level 2 (FJFPXTW2)

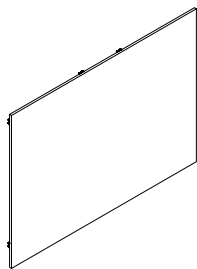
- Height: 48"
- Width: 12" - 48" (1/8" increments)

landscape mid-split basics

The landscape mid-split infill fascias include the following options.

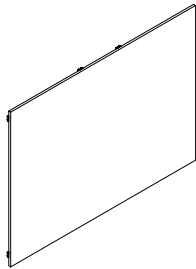


Finishes: Fascia Laminates, Flintwood
Fabrics: Panel, COM



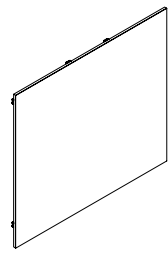
Landscape Solid Fascia - Mid-Split Monolithic, Level 1 (FJFLMSM)

- Height: 48"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF
 - Horizontal Single, Double 35" AFF



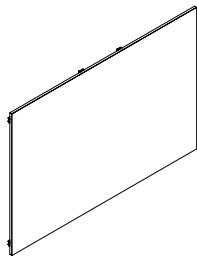
Landscape Solid Fascia - Mid-Split, Level 2 (FJFLMS2)

- Height: 44"
- Width: 12" - 120" (1/8" increments)



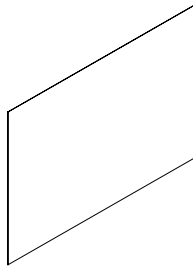
Landscape Fabric Wrapped Fascia - Mid Split Monolithic, Level 1 (FJFLRMSM)

- Height: 48"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF
 - Horizontal Single, Double 35" AFF



Landscape Fabric Wrapped Fascia - Mid-Split, Level 2 (FJFLRMS2)

- Height: 44"
- Width: 12" - 120" (1/8" increments)



Landscape Acoustic Tackable Fascia - Mid-Split, Level 2 (FJFLAMS2)

- Height: 44"
- Width: 12" - 120" (1/8" increments)

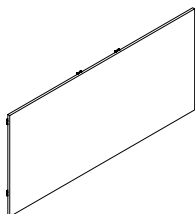
landscape tri-segmented basics

The landscape tri-segmented infill fascias include the following options.



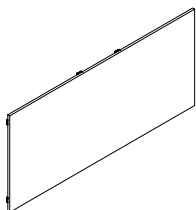
Finishes: Fascia Laminates, Flintwood

Fabrics: Panel, COM



**Landscape Solid Fascia -
Tri-Segmented Monolithic, Level 1
(FJFLTSM)**

- Height: 32"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
- Vertical Single, Double 15" AFF



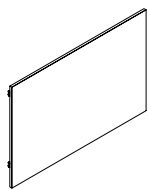
**Landscape Solid Fascia -
Tri-Segmented, Level 2 (FJFLTS2)**

- Height: 30"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
- Horizontal Single, Double 35" AFF



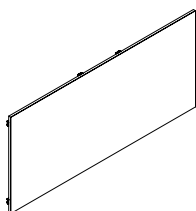
**Landscape Solid Fascia -
Tri-Segmented, Level 3 (FJFLTS3)**

- Height: 30"
- Width: 12" - 120" (1/8" increments)



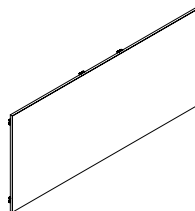
**Landscape Fabric Wrapped Fascia -
Tri-Segmented Monolithic, Level 1
(FJFLRTSM)**

- Height: 32"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
- Vertical Single, Double 15" AFF



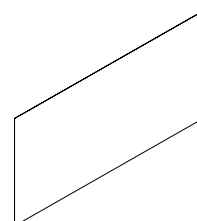
**Landscape Fabric Wrapped
Fascia -Tri-Segmented, Level 2
(FJFLRTS2)**

- Height: 30"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
- Horizontal Single, Double 35" AFF



**Landscape Fabric Wrapped
Fascia -Tri-Segmented, Level 3
(FJFLRTS3)**

- Height: 30"
- Width: 12" - 120" (1/8" increments)



**Landscape Acoustic Tackable
Fascia- Tri-Segmented, Level 2
(FJFLATS2)**

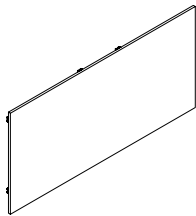
- Height: 30"
- Width: 12" - 120" (1/8" increments)

landscape task wall basics

The landscape task wall infill fascias include the following options.

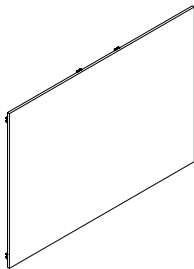


Finishes: Fascia Laminates, Flintwood
Fabrics: Panel, COM



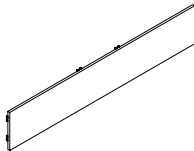
Landscape Solid Fascia - Task Wall Monolithic, Level 1 (FJFLTWM)

- Height: 32"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF



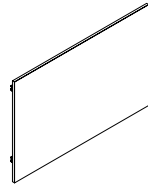
Landscape Solid Fascia - Task Wall, Level 2 (FJFLTW2)

- Height: 48"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Horizontal Single, Double 35" AFF



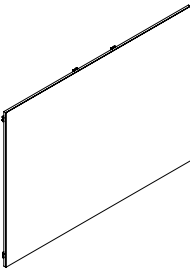
Landscape Solid Fascia - Task Wall, Level 3 (FJFLTW3)

- Height: 12"
- Width: 12" - 120" (1/8" increments)



Landscape Fabric Wrapped Fascia - Task Wall Monolithic, Level 1 (FJFLRTWM)

- Height: 32"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Vertical Single, Double 15" AFF



Landscape Fabric Wrapped Fascia - Task Wall, Level 2 (FJFLRTW2)

- Height: 48"
- Width: 12" - 120" (1/8" increments)
- Electrical Cutouts:
 - Horizontal Single, Double 35" AFF



Landscape Fabric Wrapped Fascia - Task Wall, Level 3 (FJFLRTW3)

- Height: 12"
- Width: 12" - 120" (1/8" increments)

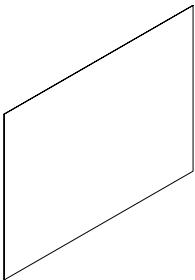
landscape task wall basics (continued)

The landscape task wall infill fascias include the following options.



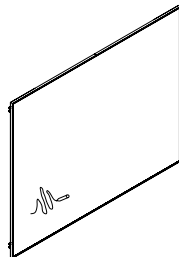
Finishes: Select Backpainted Glass Color
Select Paint Colors

Fabrics: Panel, COM



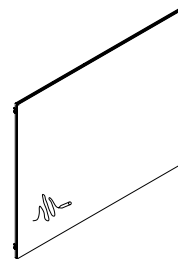
Landscape Acoustic Tackable Fascia - Task Wall, Level 2 (FJFLATW2)

- Height: 48"
- Width: 12" - 120" (1/8" increments)



Landscape Framed Backpainted Glass Markerboard - Task Wall, Level 2 (FJFLYTW2)

- Height: 48"
- Width: 12" - 118" (1/8" increments)



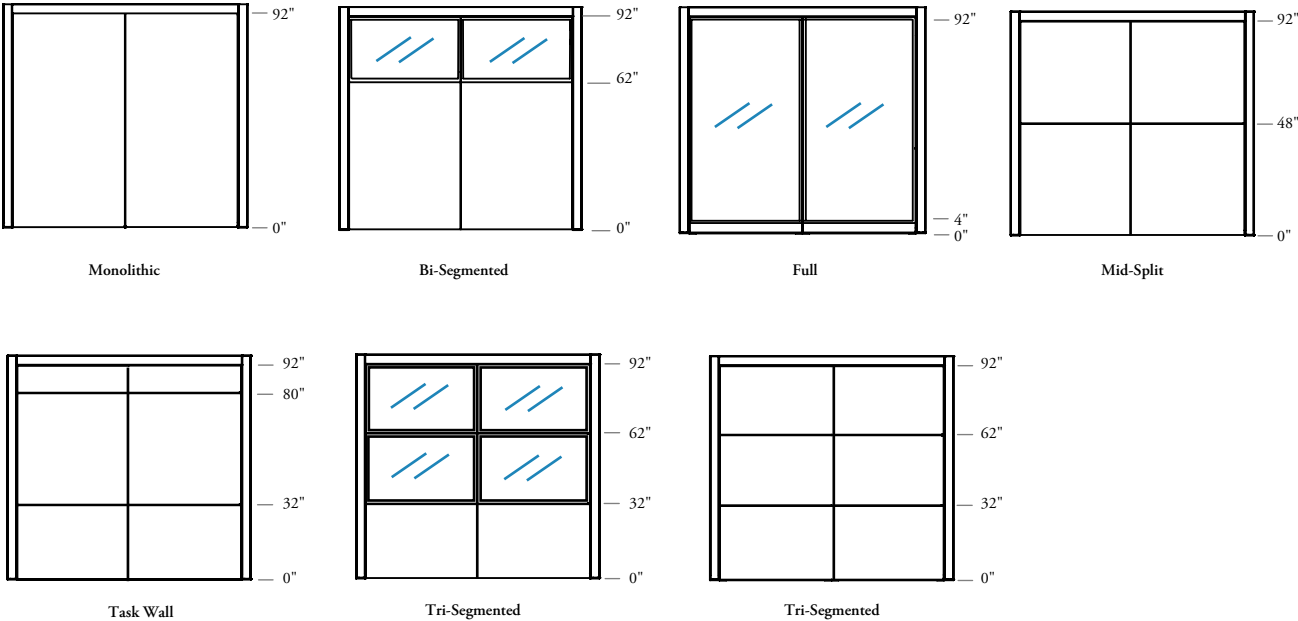
Landscape Frameless Backpainted Glass Markerboard - Task Wall, Level 2 (FJFLXTW2)

- Height: 48"
- Width: 12" - 96" (1/8" increments)

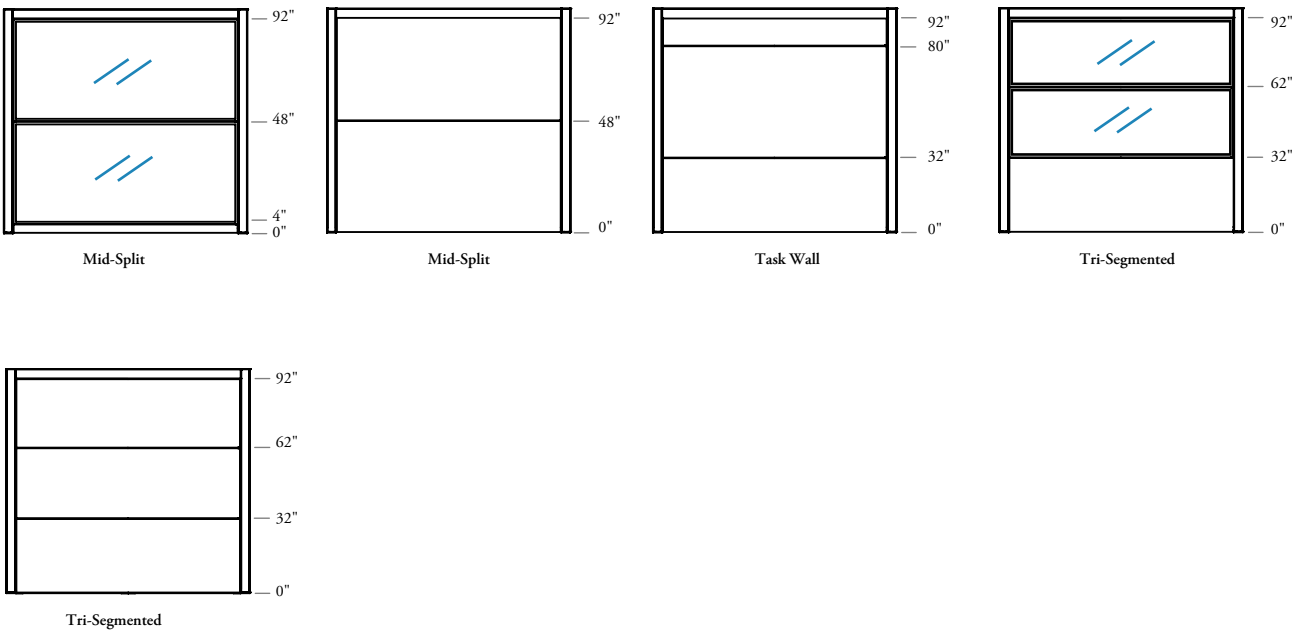
infills, wall fascias elevations overview

The chart illustrates the datums for the various infills options for portrait and landscape.

portrait



landscape

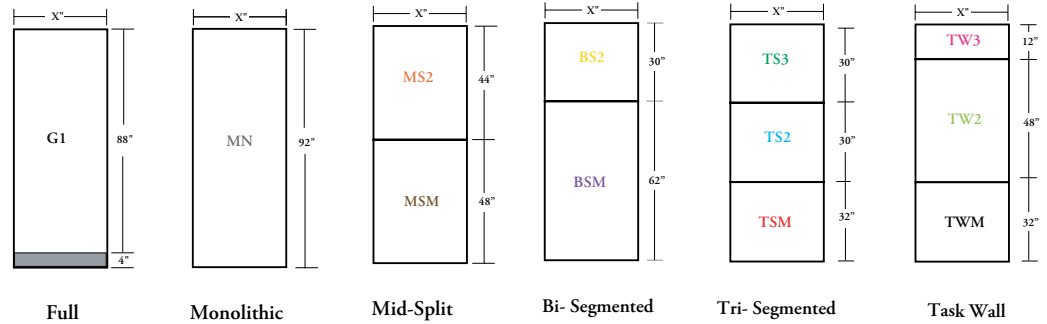


specifying wall infill materials & widths

The chart outlines the material options and size limitations for each fascia.

portrait

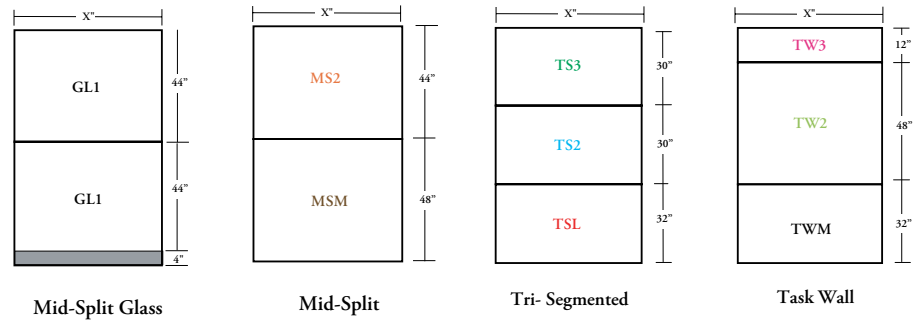
G1	Glass - Portrait
MN	Monolithic
MSM	Mid-Split - Monolithic
MS2	Mid-Split - lvl 2
BSM	Bi-Segmented - Monolithic
BS2	Bi-Segmented - lvl 2
TSM	Tri-segmented - Monolithic
TS2	Tri-segmented - lvl 2
TS3	Tri-Segmented - lvl 3
TWM	Task Wall - Monolithic
TW2	Task Wall - lvl 2
TW3	Task Wall - lvl 3



	G1	MN	MSM	MS2	BSM	BS2	TSM	TS2	TS3	TWM	TW2	TW3
Glass	12-48"	N/A	N/A	12-48"	N/A	12-48"	N/A	12-48"	12-48"	N/A	12-48"	12-48"
Solid	N/A	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"
Fabric Wrapped	N/A	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"	12-48"
Acoustic Tackable	N/A	12-48"	N/A	12-48"	N/A	N/A	N/A	12-48"	N/A	N/A	12-48"	N/A
Micro Perf	N/A	12-44"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Markerboard Framed BPG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12-48"	N/A
Markerboard Frameless BPG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12-48"	N/A

landscape

GL1	Glass - Landscape
MSM	Mid-Split - Monolithic
MS2	Mid-Split - lvl 2
TSM1	Tri-segmented - Monolithic
TS2	Tri-segmented - lvl 2
TS3	Tri-segmented - lvl 3
TWM1	Task Wall - Monolithic
TW2	Task Wall - lvl 2
TL3	Task Wall - lvl 3



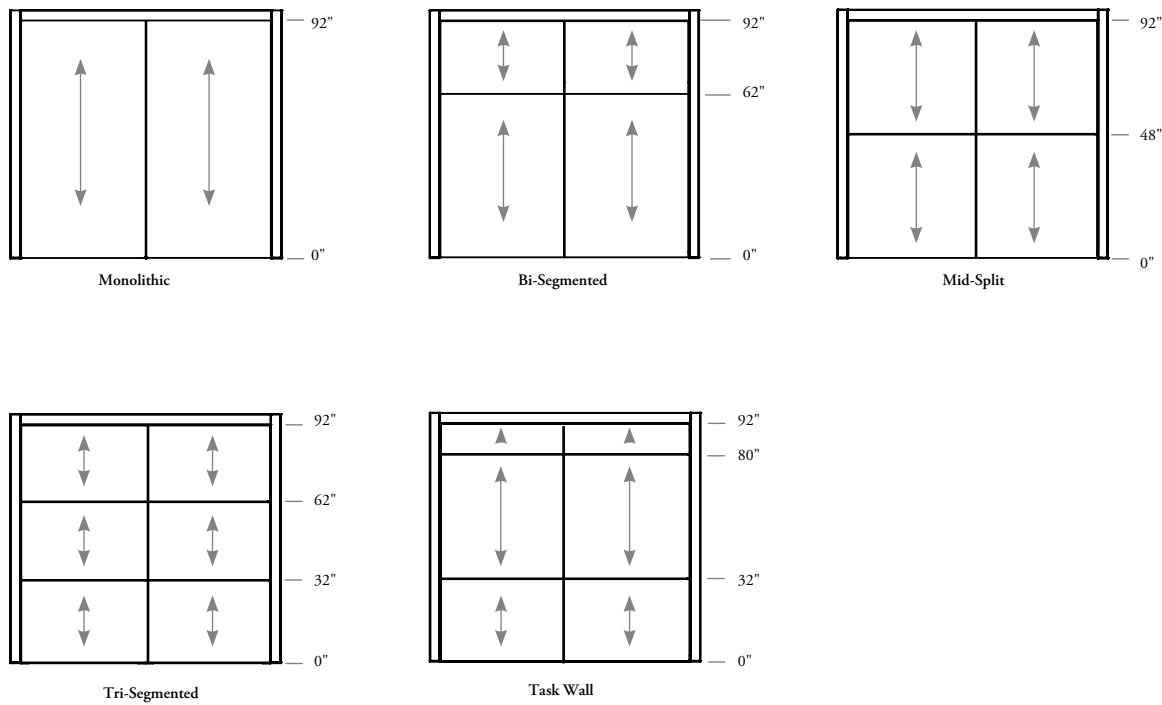
	G1	MSM	MS2	TWM	TS2	TS3	TWM	TW2	TW3
Glass	12-96"	N/A	12-96"	N/A	12-96"	12-96"	N/A	12-96"	12-96"
Solid	N/A	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"
Fabric Wrapped	N/A	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"
Acoustic Tackable	N/A	N/A	12-120"	N/A	12-120"	N/A	N/A	12-120"	N/A
Micro Perf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Markerboard Framed BPG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12-118"	N/A
Markerboard Frameless BPG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12-96"	N/A

application guide

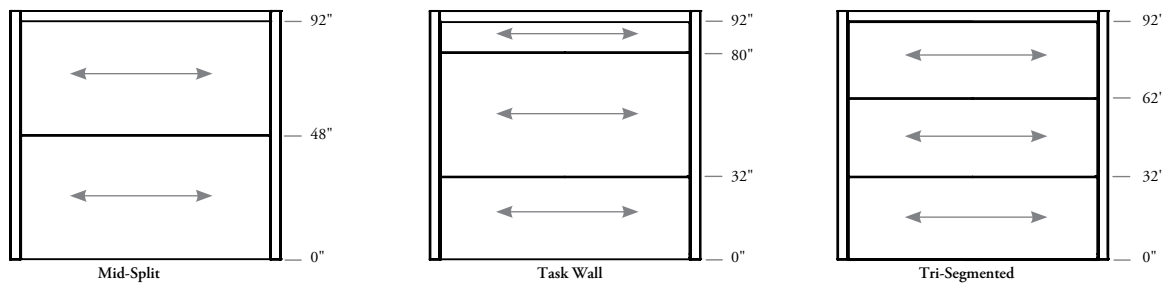
infills, wall fascias fabric finishes

The chart outlines the fabric direction for each fascia.

portrait



landscape

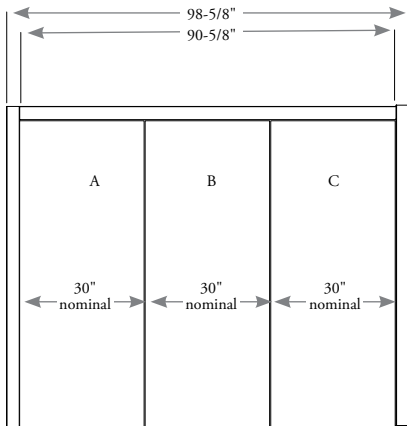


planning with infill, wall fascias widths

The infills widths can effect other products and vice versa. Review the following when deciding infill wall widths.

infills drives beam length

The example below illustrates the chosen infills widths between two posts and their influence on the beam length.
Use this approach to have all infills equal widths between two posts.

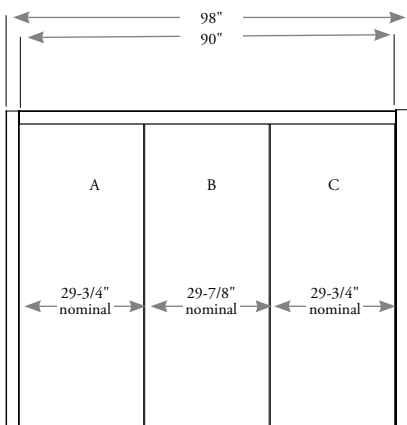


Refer to the chart to calculate the beam length based on chosen quantity and the chosen infill widths.

Number of Infills	Infills Combined + Reveal Line	Example - Infill Nominal Width + Reveal	Beam Nominal Length (FJSBK)	Beam Actual Length (FJSBK)
1	$A + 3/8"$	$40" + 3/8"$	40_3	$40-3/8"$
2	$A + B + 4/8"$	$30" + 30" + 4/8"$	60_4	$60-1/2"$
3	$A + B + C + 5/8"$	$30" + 30" + 30" + 5/8"$	90_5	$90-5/8"$
4	$A + B + C + D + 6/8"$	$30" + 30" + 30" + 30" + 6/8"$	120_6	$120-3/4"$

beam drives infill widths

The example below illustrates the chosen beam length and its influence on the infill widths.
Use this approach when a specific beam length is required.



Refer to the chart to calculate the quantity and the infill widths based on the chosen beam length.

Beam Nominal Length (FJSBK)	Beam Actual Length (FJSBK)	Number of Infills	Infills Combined + Reveal Line	Example - Infill Nominal Width + Reveal
40"	40_0	1	$A + 3/8"$	$39-5/8" + 3/8"$
60"	60_0	2	$A + B + 4/8"$	$29-3/4" + 29-3/4" + 4/8"$
90"	90_0	3	$A + B + C + 5/8"$	$29-3/4" + 29-7/8" + 29-3/4" + 5/8"$
120"	120_0	4	$A + B + C + D + 6/8"$	$29-7/8" + 29-3/4" + 29-3/4" + 29-7/8" + 3/4"$

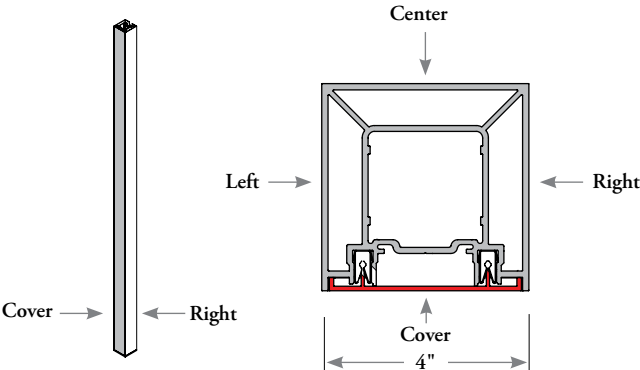
planning with infill, wall fascias post & beams

Depending on the chosen configuration the post will need to be selected based on the application

standard post

The following shows the posts and its four sides. Infills can be connected to the Left, Center and Right side of the post.
Refer to the table below to see which combinations are possible .

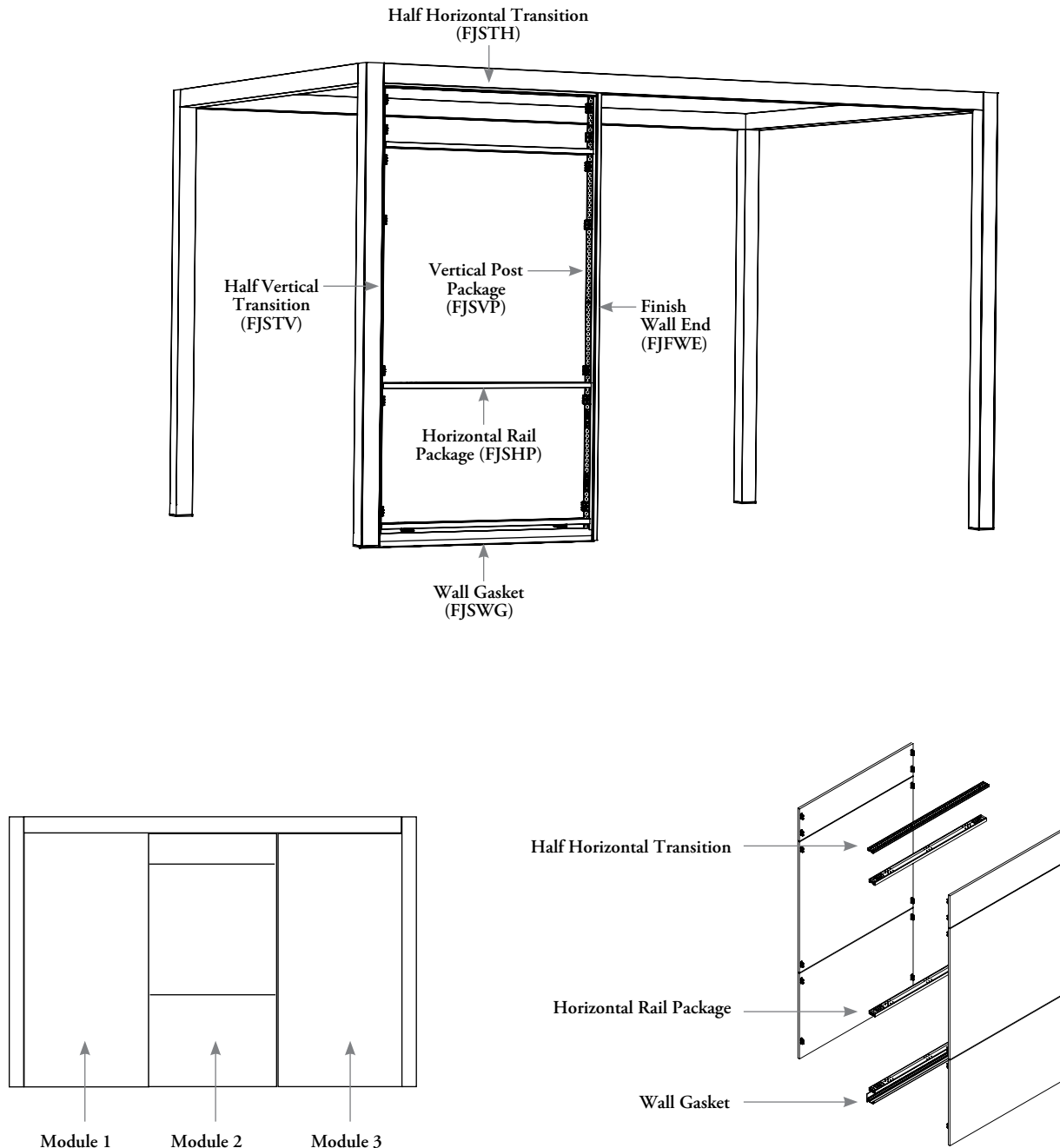
- Post cover side is marked with the red line to identify post orientation



		✓	Walls and glass infills can be placed on the left, right sides of an inline post.
		✓	Walls and glass infills can be placed on the left and center sides of a two-way left hand post. Walls and glass infills can be placed on the right and center sides of a two-way right hand post.
		✓	Walls and glass infills can be placed on the left, right and center sides of a three-way post.
		✓	Walls and glass infills can be placed on the left, right and center sides of a four-way post.
		✗	Walls and glass infills cannot be placed on the cover side of the post.

wall infill frame components overview

The frame components are used in conjunction with the various fascia options. Frame components are determined by the fascias elevations chosen and the specific configuration for inside and outside fascias and adjacent fascias.



Horizontal frame components are specified per module to coordinate with the chosen Fascia elevations.

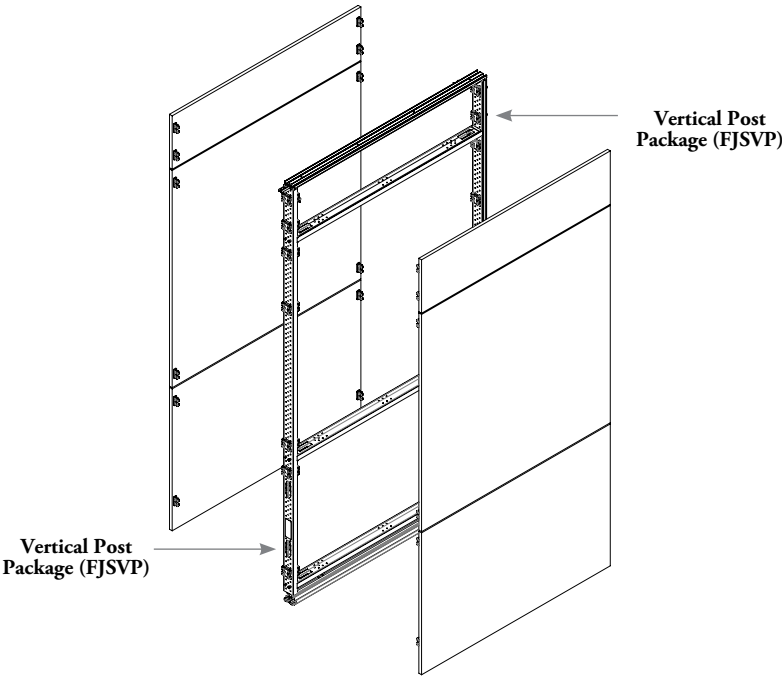
- Horizontal Rail Package (FJSHP)
- Half Horizontal Transition (FJSTH)
- Wall Gasket (FJSWG) (one piece 120")

(module #2 example shown above)

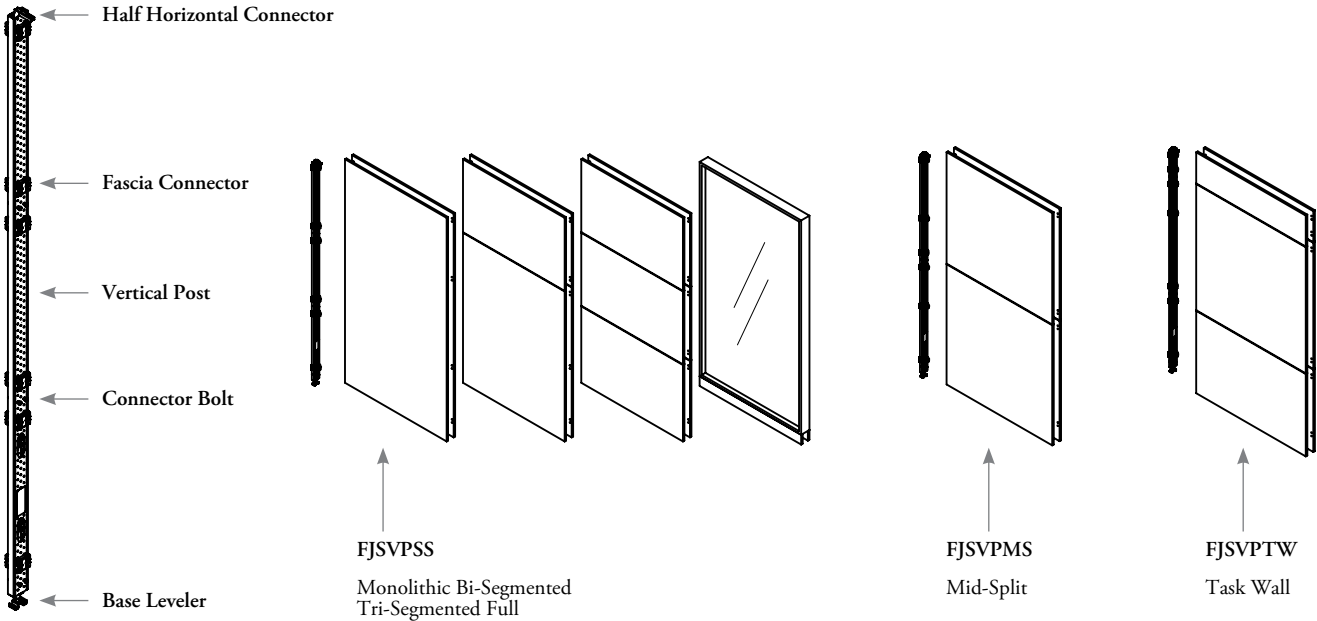
wall infill frame components overview (continued)

The Vertical Post Package extends from finished floor to the bottom of the beam and is the vertical support for Infills, Walls.

The vertical post has fascias attached to both side of the wall.

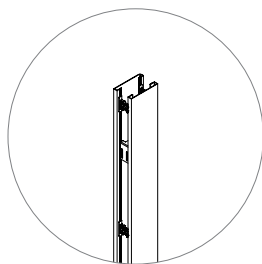


Vertical Post Package (FJSVP)



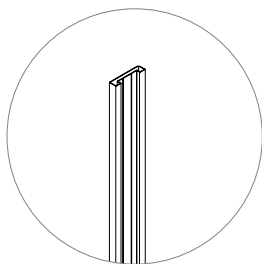
frame kit & components infill, wall fascias basics

The infill frame kits and components consist of the following components.



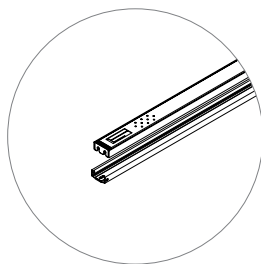
Aluminum Fascia Kit (FJFPAK)

- A routing path around for up to four conduit feeds (3/4" diameter)
- Electrical Cutout Style:
 - Solid
 - 42" Vertical Height
- Finishes: Painted



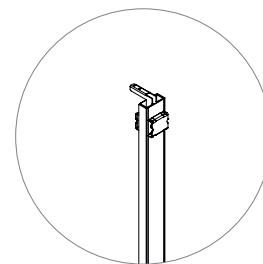
Finish Wall End (FJFWE)

- Used to finish partial walls
- Height 92"
- Finishes:
 - Painted
 - Laminate
 - Flintwood



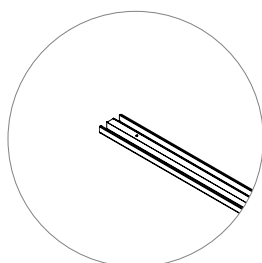
Horizontal Rail Package (FJSHP)

- Horizontal Rails attach to Vertical Posts to provide lateral support
- Standard and/or Functional Rail Options
- Always includes base channel
- Width: 12-120" (1/8" increments)



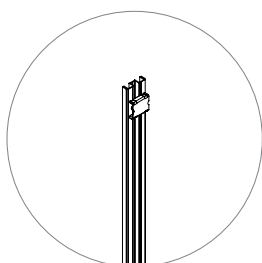
Vertical Post Package (FJSVP)

- Vertical Posts extend from floor to ceiling to provide vertical structure and hold fascias in place
- Height 92"



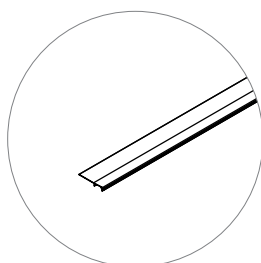
Half Horizontal Transition (FJSTH)

- Half horizontal attaches to the beam to provide fascia support
- Width: 6, 12-120" (1/8" increments)
- Includes fascia clips



Half Vertical Transition (FJSTV)

- Half vertical attaches to the post to provide fascia support
- Height: 92"
- Includes fascia clips



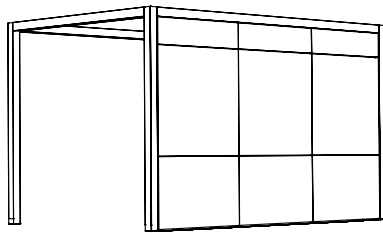
Wall Gasket (FJSWG)

- Is a light and sound seal between the bottom of the wall system and the finished floor
- Length: 120" (cut to size)
- One per side of a wall run required

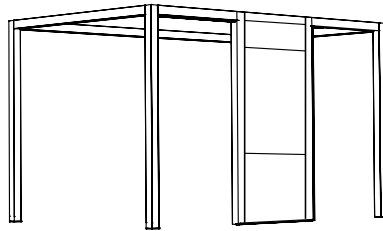
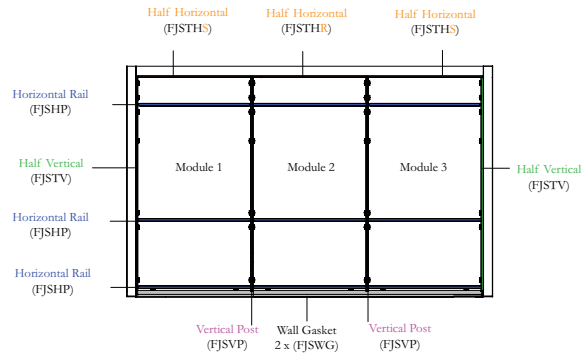
planning with infill, wall fascias frame components

The number and type of frame components varies depending on the module positioning.

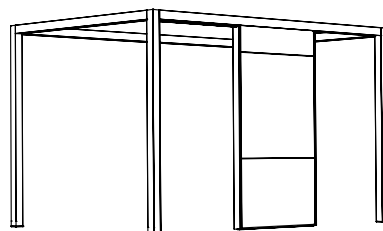
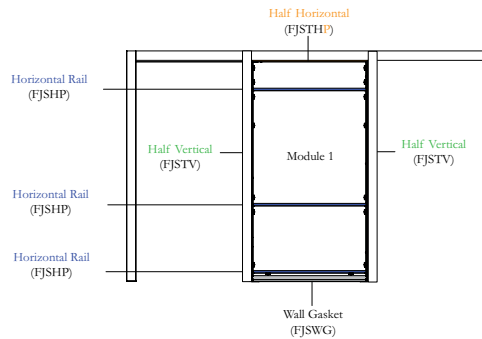
- Half Horizontal Transition (FJSTH) is specified per module and modules positions. Below shows the code and the position, noted with orange text
- Task Wall shown for all examples
- Wall Gasket (FJSWG), one per side of a wall run required. Gasket is 120" and cut on site, specify an additional gasket per side for wall runs longer than 120"
- Any module between two modules (one on the left and right) will use the Half Horizontal (FJSTHR)



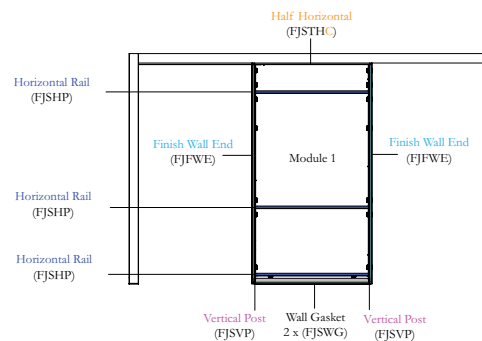
Infills, Full Wall



Infills, Single Post to Post

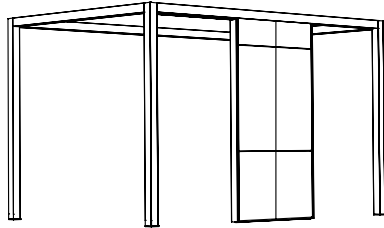


Infills, Partial Wall - Centered

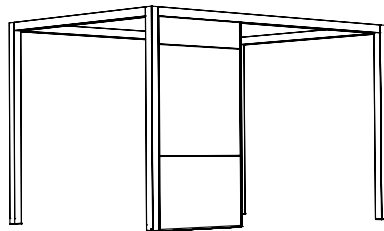
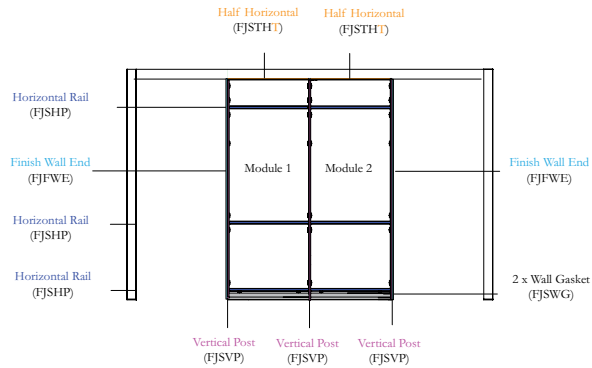


Note: examples shown above apply to Landscape Infills

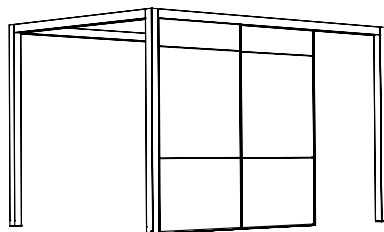
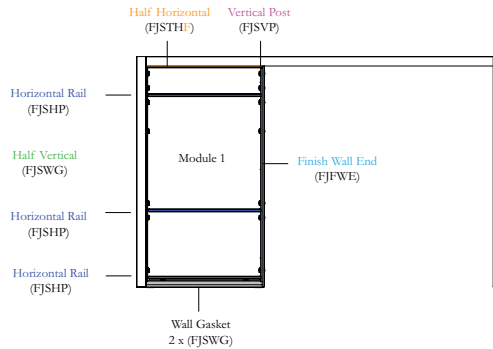
planning with infill, wall fascias frame components (continued)



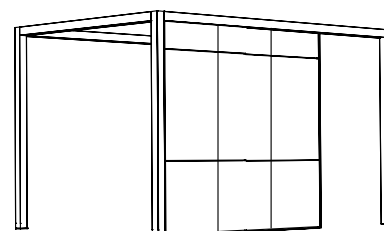
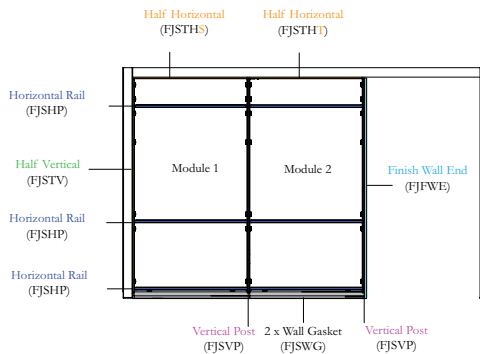
Infills, Partial Wall - Centered
(two or more modules)



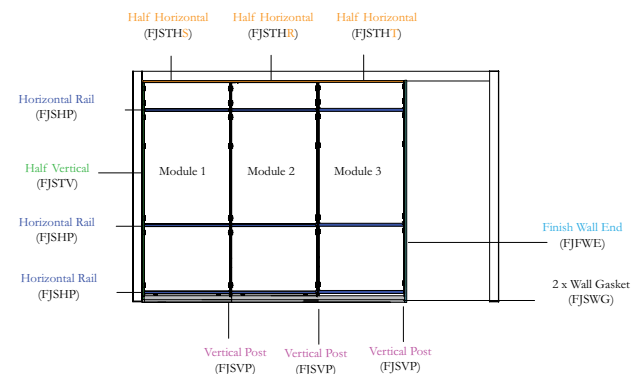
Infills, Partial Wall - Left/Right Justified



Infills, Partial Wall - Left/Right Justified
(two modules)



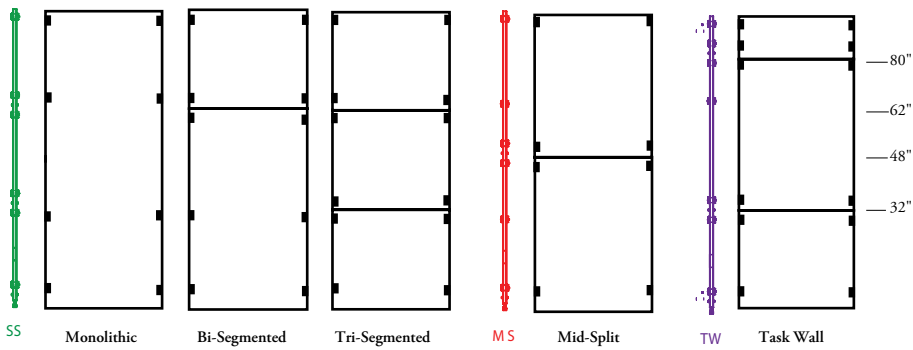
Infills, Partial Wall - Left/Right Justified
(three or more modules)



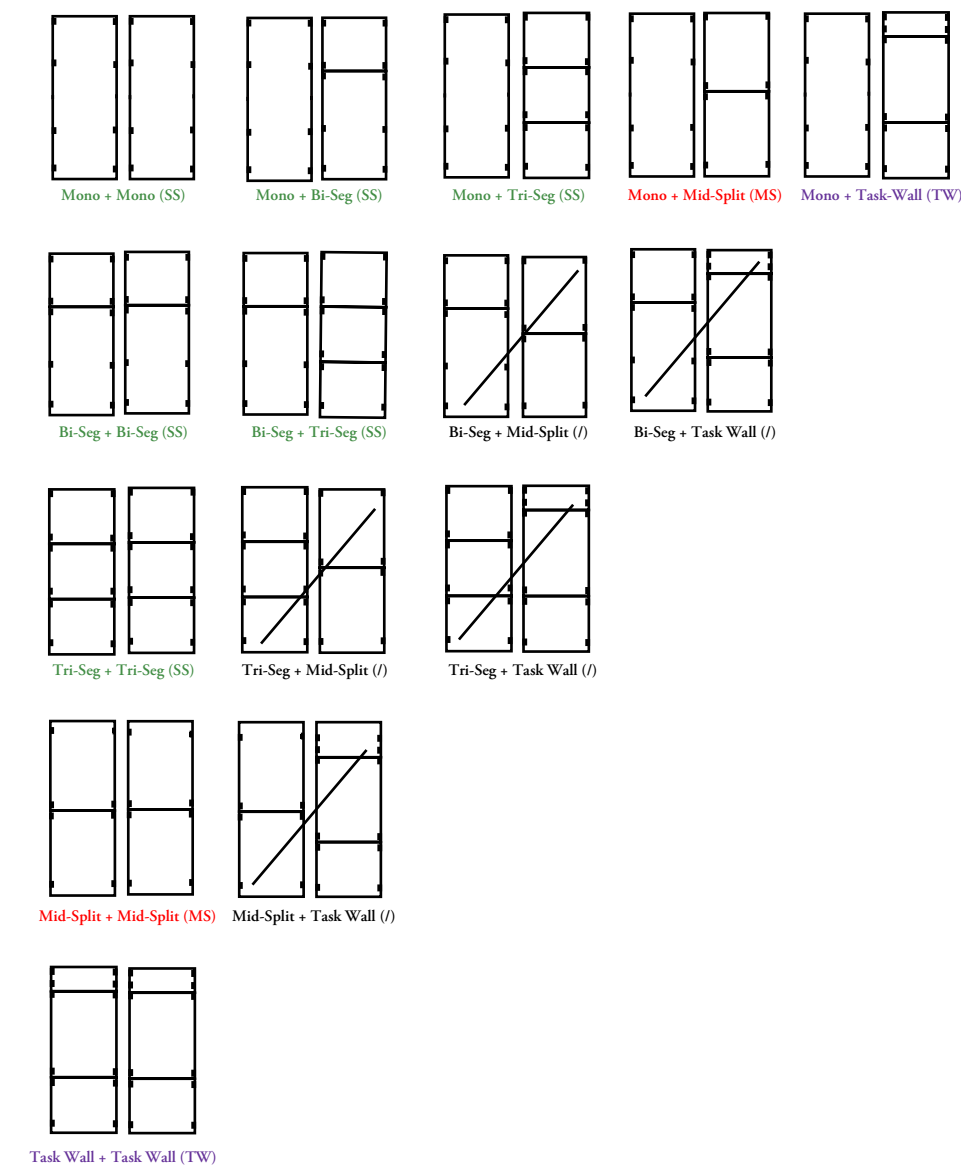
Note: examples shown above apply to Landscape Infills

planning with vertical posts

The following illustration shows the vertical post and half vertical transition that is required for modules that have the following fascia datums on the inside and outside.



The following chart can be used for selecting the elevation option of both the Vertical Post Package (FJSVP) and Half Vertical Transition (FJSTV)



infill, wall fascias vertical post selector

The chart demonstrates which vertical post package should be selected for each application.

		Single Wall Module: Inner and Outer Elevations														
		Mono + Mono	Mono + Mid-split	Mono + Bi-seg	Mono + Tri-seg	Mono + Task Wall	Bi-seg + Bi-seg	Bi-seg + Mid-split	Bi-seg + Tri-seg	Bi-seg + Task Wall	Tri-seg + Tri-seg	Tri-seg + Mid-split	Tri-seg + Task Wall	Mid-split + Mid-split	Mid-split + Task Wall	Task Wall + Task Wall
Adjacent Wall Module: Inner and Outer Elevations	Mono + Mono	SS	MS	SS	SS	TW	SS	/	SS	/	SS	/	/	MS	/	TW
	Mono + Mid-split	MS	MS	/	/	/	/	/	/	/	/	/	/	MS	/	/
	Mono + Bi-seg	SS	/	SS	SS	/	SS	/	SS	/	SS	/	/	/	/	/
	Mono + Tri-seg	SS	/	SS	SS	/	SS	/	SS	/	SS	/	/	/	/	/
	Mono + Task Wall	TW	/	/	/	TW	/	/	/	/	/	/	/	/	/	TW
	Bi-seg + Bi-seg	SS	/	SS	SS	/	SS	/	SS	/	SS	/	/	/	/	/
	Bi-seg + Mid-split	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bi-seg + Tri-seg	SS	/	SS	SS	/	SS	/	SS	/	SS	/	/	/	/	/
	Bi-seg + Task Wall	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Tri-seg + Tri-seg	SS	/	SS	SS	/	SS	/	SS	/	SS	/	/	/	/	/
	Tri-seg + Task Wall	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Tri-seg + Task Wall	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Mid-split + Mid-split	MS	MS	/	/	/	/	/	/	/	/	/	/	MS	/	/
	Mid-split + Task Wall	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Task Wall + Task Wall	TW	/	/	/	TW	/	/	/	/	/	/	/	/	/	TW

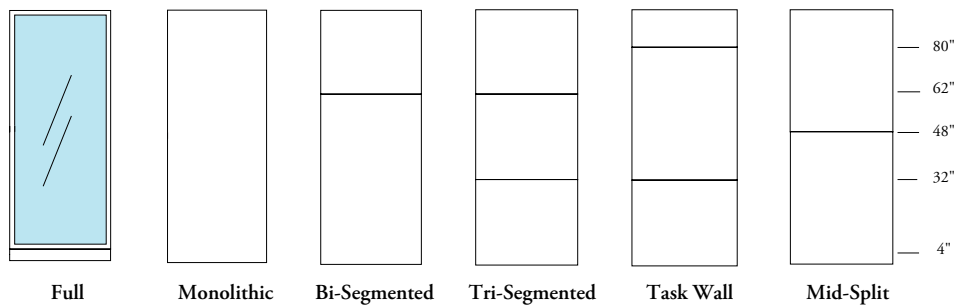
planning with horizontal rails with portrait infills

Horizontal Rail Packages include the appropriate number of horizontal rails based on the datums selected and one Base Channel.

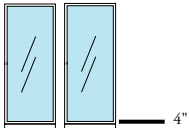
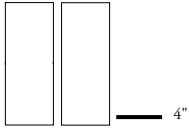
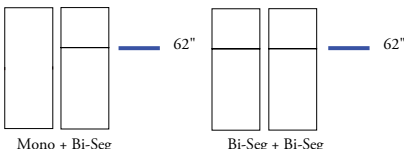
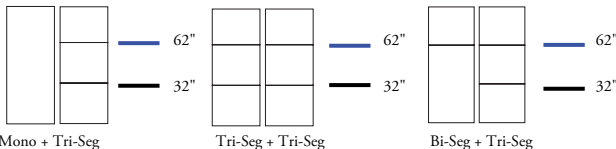
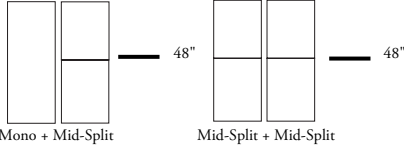
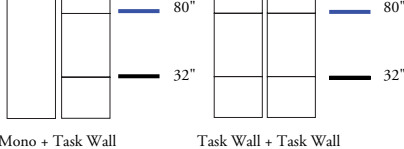
The following chart illustrates which datums required a horizontal rail



- Minimum one horizontal per set of infills
- One horizontal per reveal line

Connection clips will need to be removed on the vertical post to connect functional rails. Hardware included with horizontal rail package.



Example Codes

Standard Rail (FJSHP____SNNNN)	 Full + Full
Standard Rail (FJSHP____SNNNN)	 Mono + Mono
Standard Rail (FJSHP____NNNSN) Standard Rail + Functional Rail (FJSHP____NNNFN)	 Mono + Bi-Seg Bi-Seg + Bi-Seg
Standard Rail (FJSHP____NSNSN) Standard Rail + Functional Rail (FJSHP____NSNFN)	 Mono + Tri-Seg Tri-Seg + Tri-Seg Bi-Seg + Tri-Seg
Standard Rail (FJSHP____NNSNN)	 Mono + Mid-Split Mid-Split + Mid-Split
Standard Rail (FJSHP____NSNNS) Standard Rail + Functional Rail (FJSHP____NSNNF)	 Mono + Task Wall Task Wall + Task Wall

Legend	
	Standard Rail (S)
	Standard Rail (S) or Functional Rail (F)

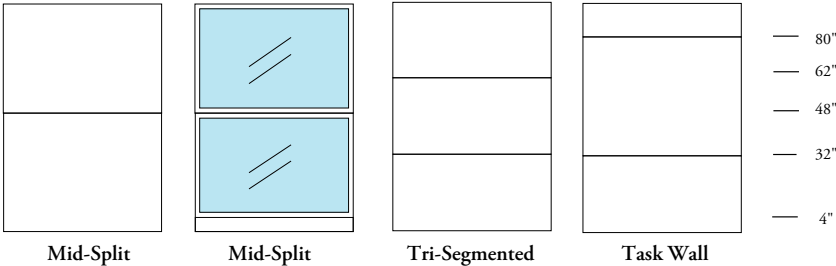
planning with horizontal rails with landscape infills

Horizontal Rail Packages include the appropriate number of horizontal rails based on the datums selected and one Base Channel.

The following chart illustrates which datums required a horizontal rail

- One horizontal per reveal line
- One horizontal always included at 4" AFF for landscape infills

Connection clips will need to be removed on the vertical post to connect functional rails. Hardware included with horizontal rail package.



Example Codes

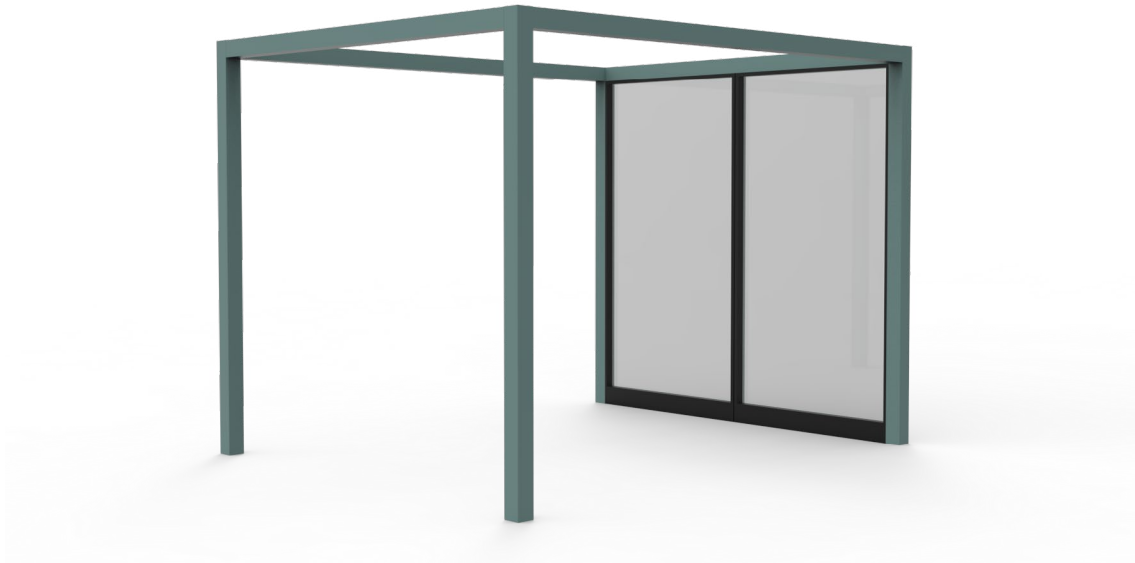
Standard Rail (FJSHP___SNSNN)	<p>Mid Split + Mid Split</p>
Standard Rail (FJSHP___SNSNN)	<p>Mid Split + Mid Split</p>
Standard Rail (FJSHP___SSNSN) Standard Rail + Functional Rail (FJSHP___SSNFN)	<p>Tri-Seg + Tri-Seg</p>
Standard Rail (FJSHP___SSNNS) Standard Rail + Functional Rail (FJSHP___SSNNF)	<p>Task Wall + Task Wall</p>

Legend	
	Standard Rail (S)
	Standard Rail (S) or Functional Rail (F)

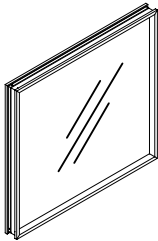
application guide

infill, wall fascias glass basics

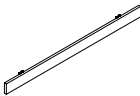
The infill wall glass fascias consist of the following components.



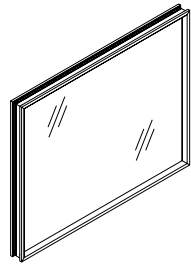
- Portrait Base Fascia (FJFPB)**
- Height: 4"
 - Width: 12" - 48" (1/8" increments)
 - Finish:
 - Laminate
 - Flintwood
 - Select Paint Colors



- Portrait Glass Fascia - Single Centered, Square Corner (FJFPGCS)**
- Height: 12", 30", 44", 48", 88"
 - Width: 12" - 48" (1/8" increments)
 - Frame Finish:
 - Select Paint Colors
 - Glass Type:
 - Tempered
 - Laminate
 - Glass Finish:
 - Standard
 - Specialty



- Landscape Base Fascia (FJFLB)**
- Height: 4"
 - Width: 12" - 96" (1/8" increments)
 - Finish:
 - Laminate
 - Flintwood
 - Select Paint Colors



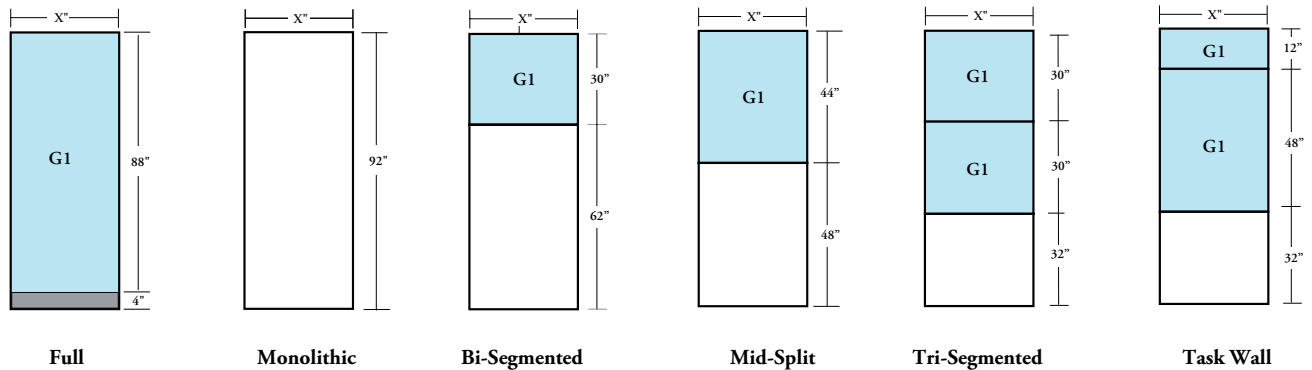
- Landscape Glass Fascia - Single Centered, Square Corner (FJFLGCS)**
- Height: 12", 30", 44", 48"
 - Width: 12" - 96" (1/8" increments)
 - Frame Finish:
 - Select Paint Colors
 - Glass Type:
 - Tempered
 - Laminate
 - Glass Finish:
 - Standard
 - Specialty

planning with infill, wall fascias with glass elevations

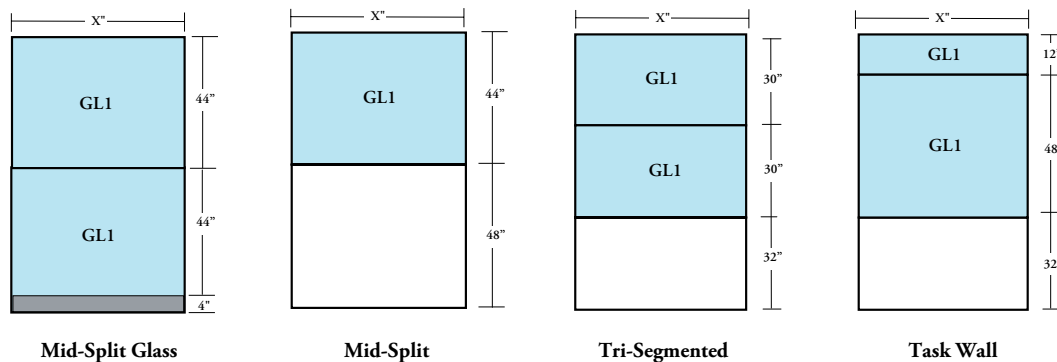
The following illustrates the locations glass can be combined with walls.

Possible glass locations are shown highlighted in blue and marked G1 or GL1.

portrait



landscape



infill, glass

infill, glass

INFILL, GLASS BASICS72

PLANNING WITH INFILL, GLASS74

infill, glass basics

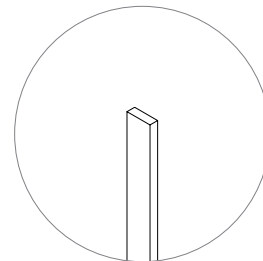
The infill glass fascias consist of the following components.



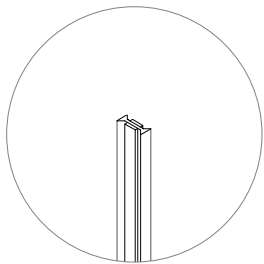
Glass Infill - 10mm Thickness (FJHGA)
• 10mm monolithic glass fascia



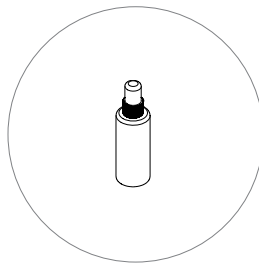
Glass Infill - 12mm Thickness (FJHGB)
• 12mm monolithic glass fascia



Glass Infill Connector Tape (FJHCT)
• Available for 10mm and 12mm glass



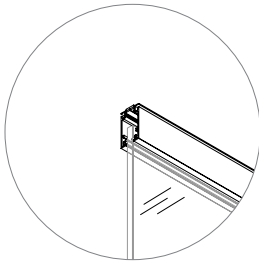
Glass Infill Connector Clear Plastic (FJHCP)
• Available for 10mm and 12mm glass



Activator Kit (FCAK)
• Activator Kit used for glass to glass connectors to promote stronger bond

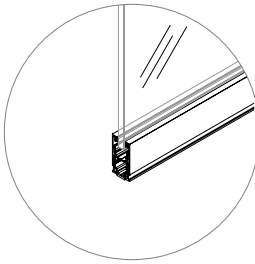
infill, glass basics (continued)

The infill glass fascias consist of the following components.



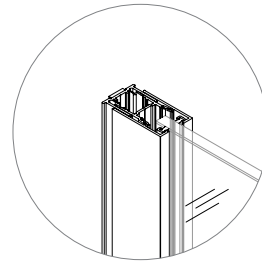
Glass Infill Horizontal Ceiling Frame (FJHCF)

- Fixed ceiling frame for single center glass infill
- Lengths: 36", 84", 121"
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



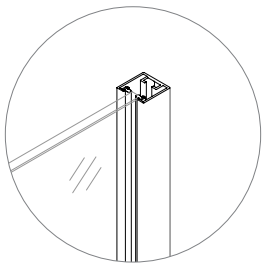
Glass Infill Horizontal Base Frame (FJHBF)

- Adjustable base frame for single center glass infill
- Lengths: 36", 84", 121"
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



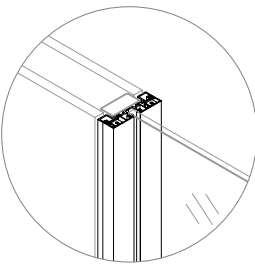
Glass Infill Wall Start (FJHWS)

- Adjustable wall start for glass infills against a post
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



Glass Infill Wall End (FJHWE)

- Wall end transition for glass infills
- Not to be used against drywall, finished end application only
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



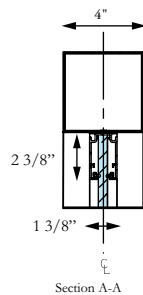
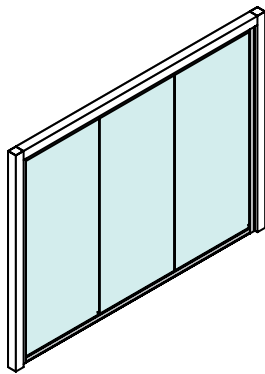
Glass Infill to Wall Fascia Transition (FJHTFI)

- Inline transition for glass infills to wall infills
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm

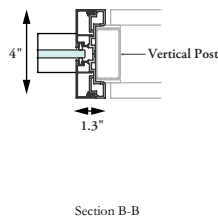
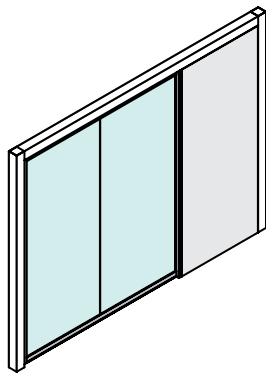
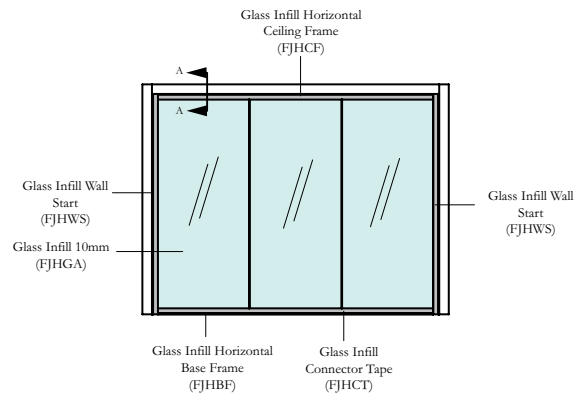
planning with infill, glass

The following describes the options for placing glass infills between two post.

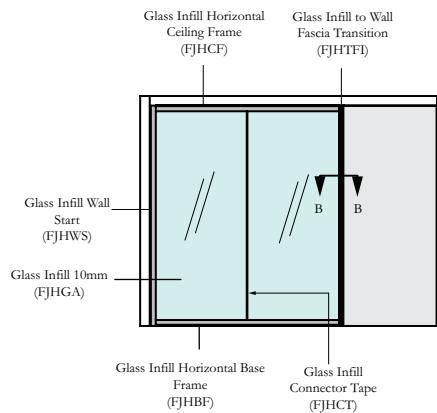
- Glass Infills consists of the following discrete elements:
 - Horizontal Frames (Base and Ceiling) - cut to length on site
 - Verticals (Wall Start and Wall Ends)- cut to length on site
 - Glass Fascias 10mm or 12 mm thicknesses
- The following outline the option for placing Glass Infills between two posts
- A continuous wall run can only be broken by a vertical (transition, wall start, wall end, etc.)
- Finished floor to underside of the beam cannot expand more than a total of 1-1/4" over an individual 10ft wall run (+3/4" under beam, + 1/2" in floor)
- If a wall run requires adjustment greater than +1-1/4" for leveling, the 92-1/2" glass needs to be selected for an adjustment range between + 1/2"-1-3/4"
- There can only be one glass fascia height per continuous wall run
- A continuous wall run can only be broken by a vertical (transition, wall start, structural post etc.)
- Separate wall runs can have different nominal heights, if required



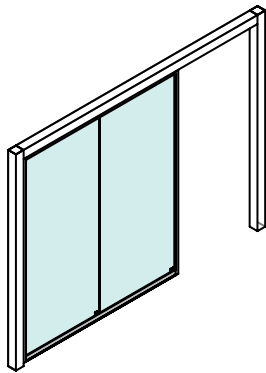
Full Wall



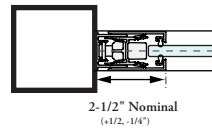
Full Wall



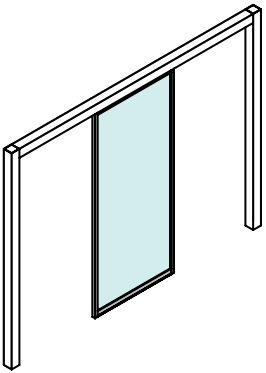
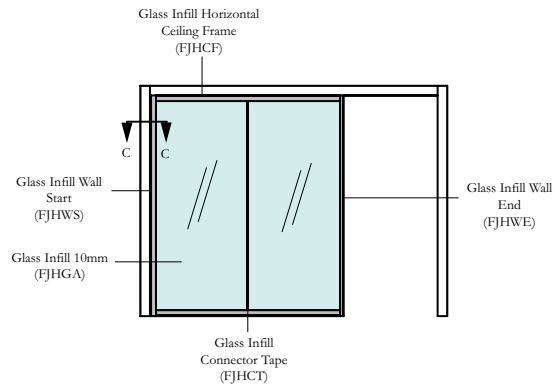
planning with infill, glass (continued)



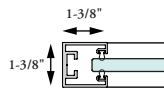
Partial Wall - Left Right Justified



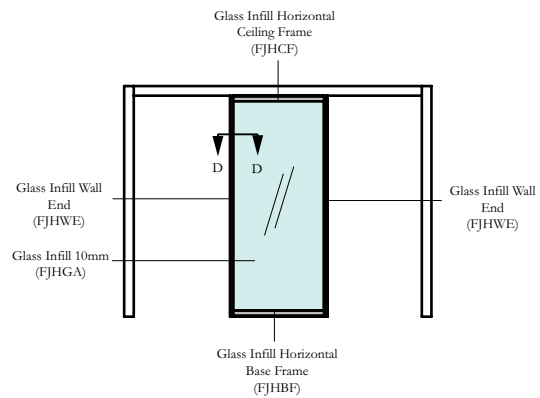
Section C-C



Partial Wall - Centered



Section D-D



screens & louvers

screens & louvers

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LOUVERS BASICS.84

LOUVER COMPONENTS & FINISHES.85

PLANNING WITH LOUVERS86

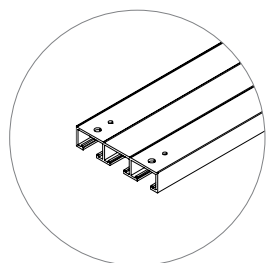
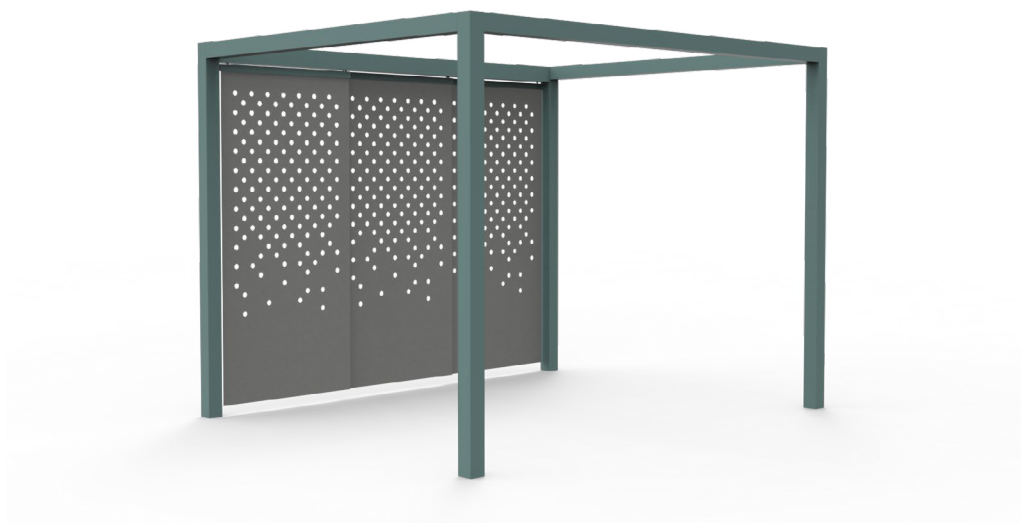
PLANNING WITH LOUVERS - RETROFITTING TO EXISTING
WITHIN91

LOUVER SIZES.94

PLANNING WITH LOUVER FRAME KITS97

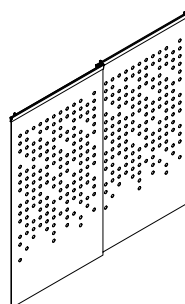
screens basics

Screens consist of the following components.



Screen Track Framework Kit (FJSTK)

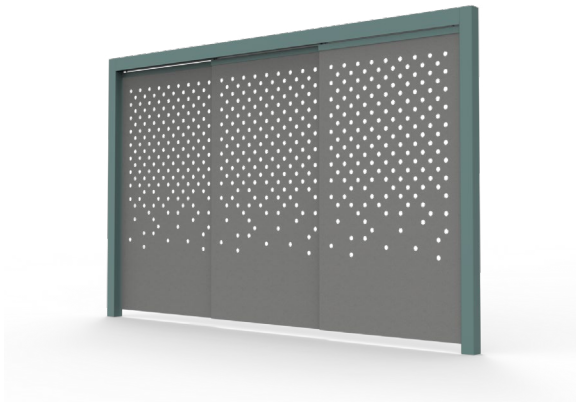
- Length: 67" - 144-7/8" (1/8" increments)
- Felt Holder Finish:
 - Foundation
 - Mica
 - Accent
- Matches beam length



Patterned Felt Screen (FJTFS)

- Style Coverage:
 - Full
 - Partial
- Three Panel Full Coverage Range -
 - 68" - 144-7/8" (1/8" increments)
- Two Panel Full Coverage Range -
 - 70" - 97-7/8" (1/8" increments)
- Two Panel Partial Coverage -
 - 50" - 98" (4" increments)
- One Panel Partial Coverage -
 - 25" - 49" (2" increments)
- Pattern Cutouts:
 - 1-3/8" Holes, 45° Pattern
 - 1-3/8" Holes, 90° Pattern
- Natural Wool Felt Finish:
 - Silver Grey
 - Charcoal Grey
- Natural Wool Felt Holder Finish:
 - Foundation
 - Mica
 - Accent

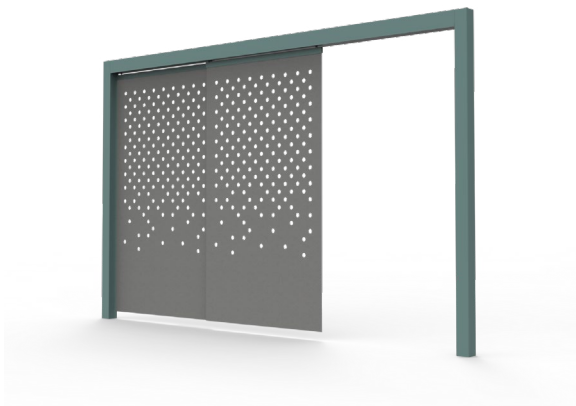
The following outlines the four possible configuration when applying screens between two posts.



Full Coverage Three Panels



Full Coverage Two Panels



Partial Coverage Two Panels

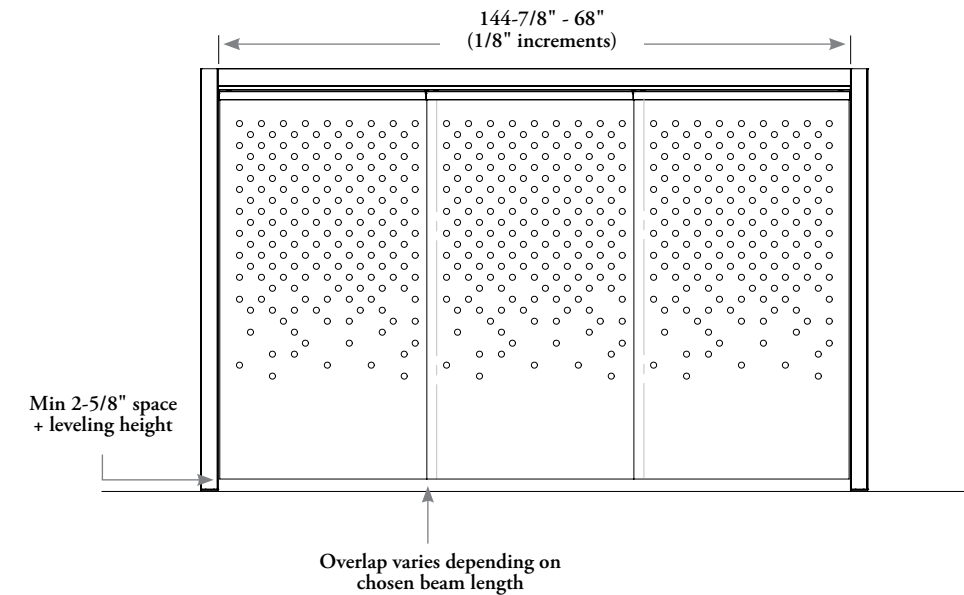


Partial Coverage One Panels

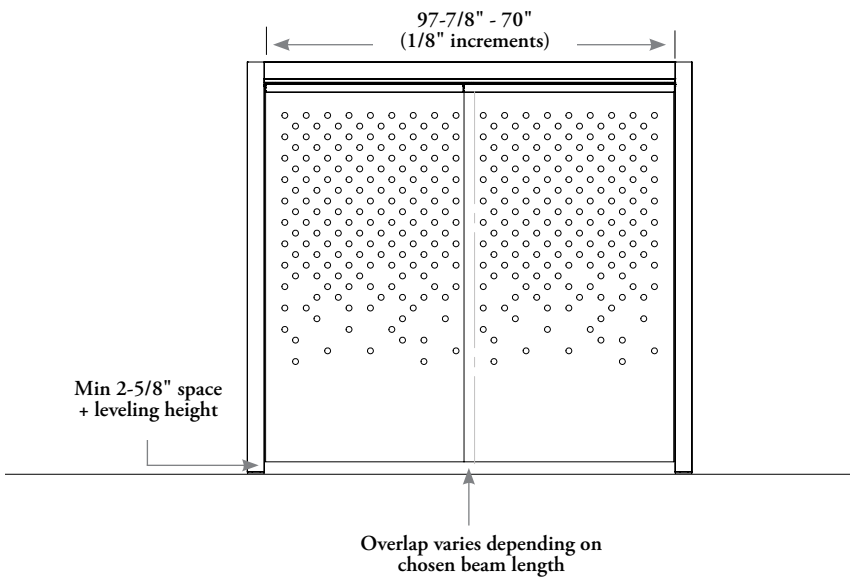
planning with screens (continued)

The following outlines the size range for screens.

full coverage three panel

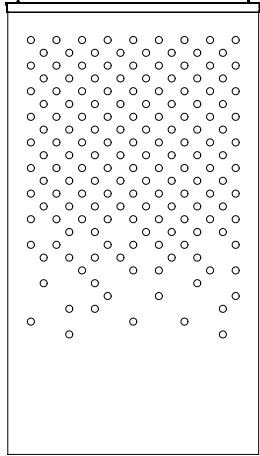


full coverage two panel

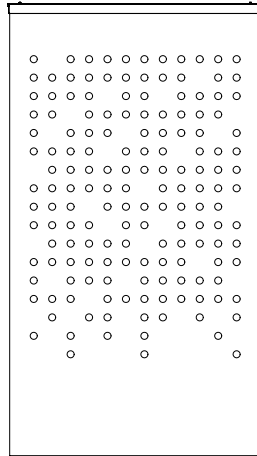


planning with screens (continued)

The following shows two types of patterns offered with the felt screens.



45° Pattern

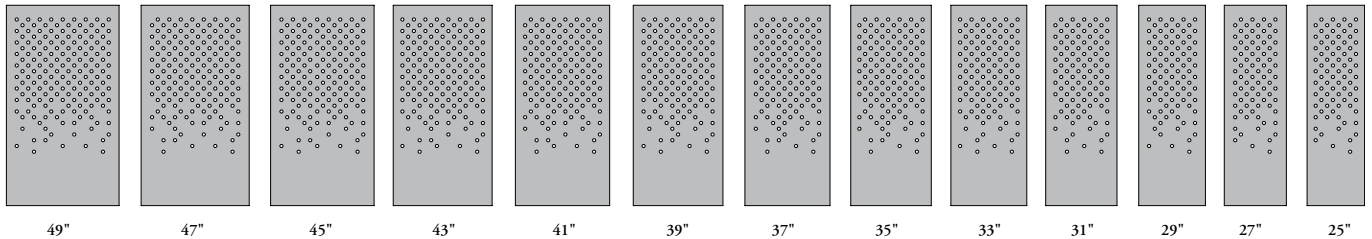


90° Pattern

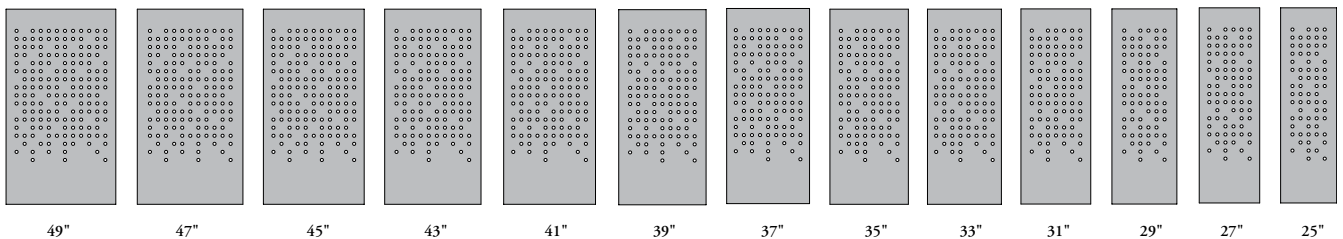
Screens are made with a 5mm thick flexible Natural Wool Felt.

The screens are available in 2" increments from 25" up to 49". Below shows the hole pattern placement for each size.

45° Hole



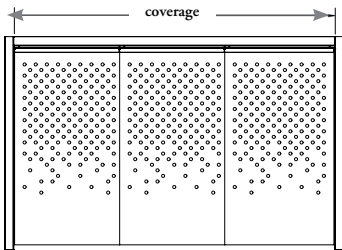
90° Hole



planning with screens (continued)

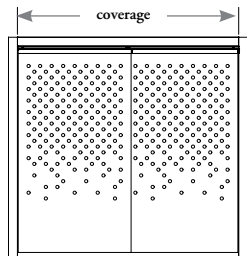
The charts below outline the options for configuring the screens and the corresponding number of panels and their width.

The full coverage options must match with a beam of the same size. Each coverage range includes some panel overlap to accommodate all sizes within the range.



Full Coverage Three Panels

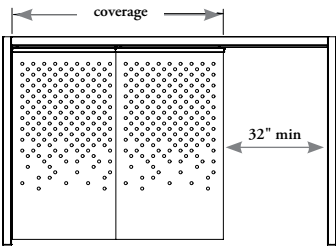
Coverage Range(Post to Post)	Panel Width
68" - 73-7/8"	25"
74" - 79-7/8"	27"
80" - 85-7/8"	29"
86" - 91-7/8"	31"
92" - 97-7/8"	33"
98" - 103-7/8"	35"
104" - 109-7/8"	37"
110" - 115-7/8"	39"
116" - 121-7/8"	41"
122" - 127-7/8"	43"
128" - 133-7/8"	45"
134" - 139-7/8"	47"
140" - 144-7/8"	49"



Full Coverage Two Panels

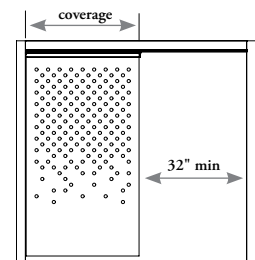
Coverage Range(Post to Post)	Panel Width
70" - 73-7/8"	37"
74" - 77-7/8"	39"
78" - 81-7/8"	41"
82" - 85-7/8"	43"
86" - 89-7/8"	45"
90" - 93-7/8"	47"
94" - 97-7/8"	49"

The partial coverage options do not need to match the beam width, it is recommended to account for a minimum open space as a passageway. In the charts below a minimum recommended beam length accounts for an assumed minimum 32" passageway opening when the screens are in the fully open position.



Partial Coverage Two Panels

Coverage	Panel Width	Min Recommended Beam Length
50"	25"	82-3/8"
54"	27"	86-3/8"
58"	29"	90-3/8"
62"	31"	94-3/8"
66"	33"	98-3/8"
70"	35"	102-3/8"
74"	37"	106-3/8"
78"	39"	110-3/8"
82"	41"	114-3/8"
86"	43"	118-3/8"
90"	45"	122-3/8"
94"	47"	126-3/8"
98"	49"	130-3/8"



Partial Coverage One Panels

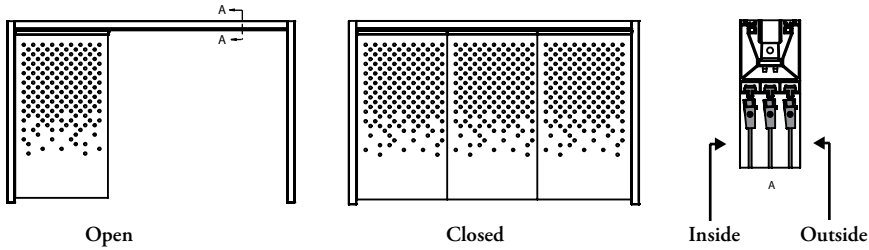
Coverage	Panel Width	Min Recommended Beam Length
25"	25"	67-3/8" *
27"	27"	67-3/8" *
29"	29"	67-3/8" *
31"	31"	67-3/8" *
33"	33"	67-3/8" *
35"	35"	67-3/8"
37"	37"	69-3/8"
39"	39"	71-3/8"
41"	41"	73-3/8"
43"	43"	75-3/8"
45"	45"	77-3/8"
47"	47"	79-3/8"
49"	49"	81-3/8"

* beam size to accommodate min track length

planning with screens (continued)

The charts below outlines the placement of the felt panels within the track of each configuration.

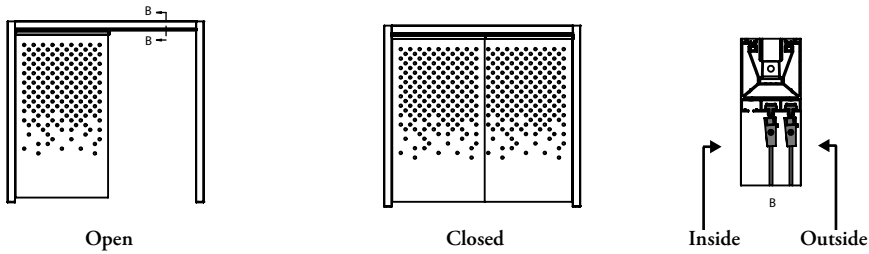
Full Coverage Three Panels



One panel occupies each of the following tracks:

- Outside
- Center
- Inside

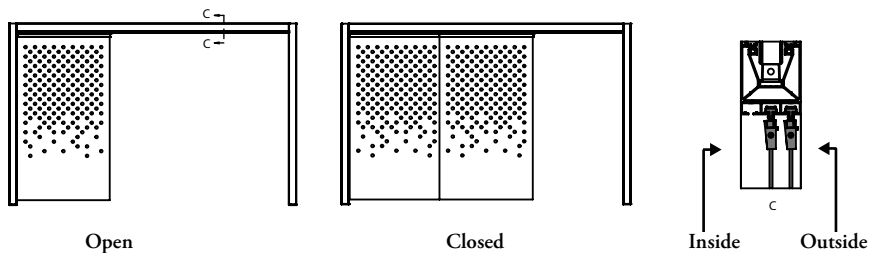
Full Coverage Two Panels



One panel occupies each of the following tracks:

- Outside and Center or
- Inside and Center

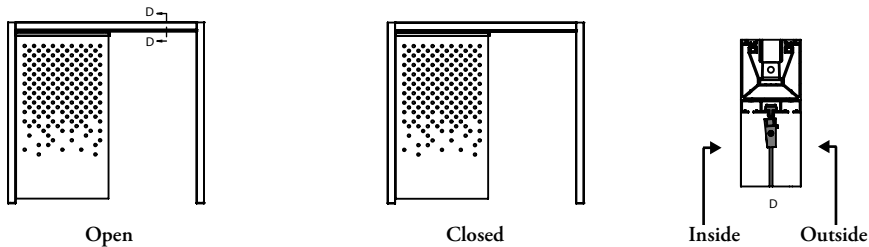
Partial Coverage Two Panels



One panel occupies each of the following tracks:

- Outside and Center or
- Inside and Center

Partial Coverage One Panels

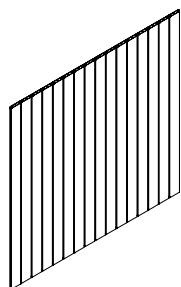


One panel occupies each of the following track:

- Outside or
- Center or
- Inside

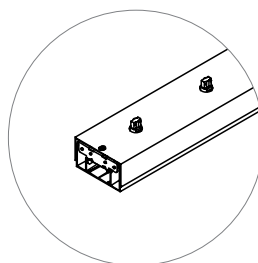
louvers basics

Louvers consist of the following components.



Louvers (FJVR)

- Width: 48"-96" nominal (6" increments)
- Rotation:
 - Clockwise
 - Counterclockwise
- Louver Finish:
 - Foundation (excluding textured)
 - Mica (excluding textured)
 - Accent
- Reveal Line is always Lunar

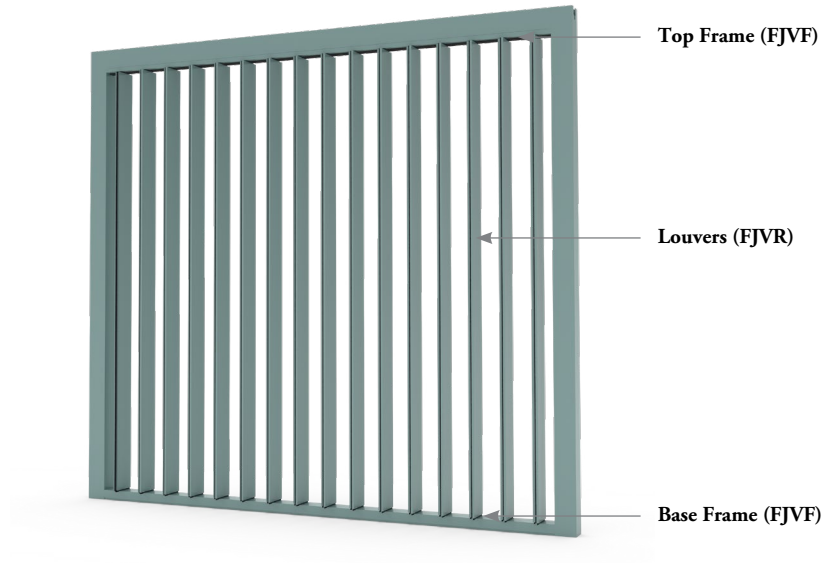


Louver Frame Kit (FJVF)

- Width: 48"-96" nominal (6" increments)
- Rotation:
 - Clockwise
 - Counterclockwise
- Application:
 - 4" x 4" Post Floor Weldment
 - 4-1/4" x 4-1/4" Post Floor Weldment
 - 8" x 8" Post Floor Weldment
- Ceiling Track Finish:
 - Foundation (excluding textured)
 - Mica (excluding textured)
 - Accent
- Base Track Finish:
 - Foundation (excluding textured)
 - Mica (excluding textured)
 - Accent

louvers components & finishes

The following outlines the finish options for each components

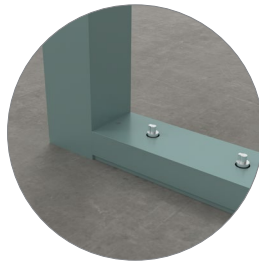


Top Frame (FJVF)



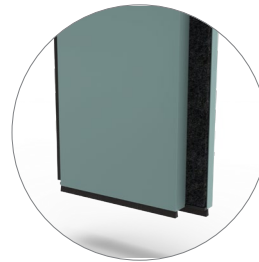
Top Frame

- Foundation
- Mica
- Accent



Base Frame

- Foundation
- Mica
- Accent



Louver

- Foundation
- Mica
- Accent

Brushes at base of louver and in the top track are Ebony.

Felt on louver reveal line is always Lunar.

Base Frame includes base track, ceiling track, louver base pin, base mechanism and base cover.

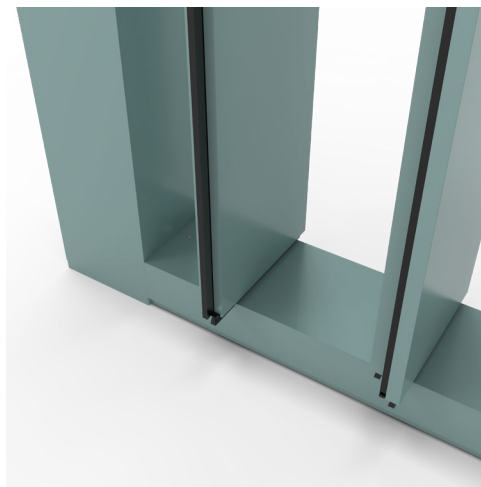
Number of louvers provided depends on coverage length specified.

planning with louvers

The following illustrates the louvers in their open and closed position.

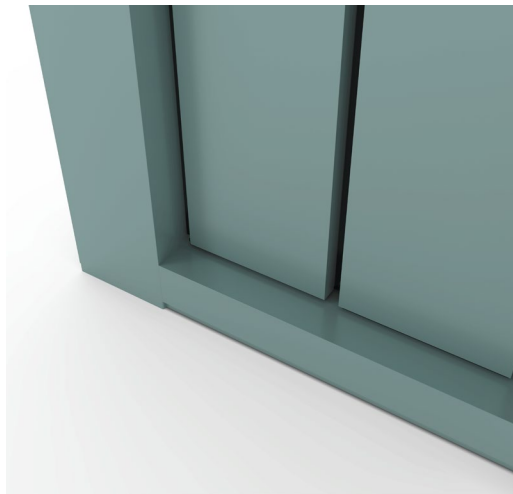
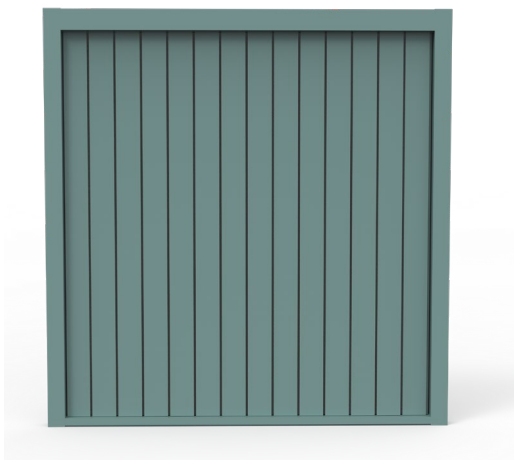
open

Louvers shown below are in the fully open position.



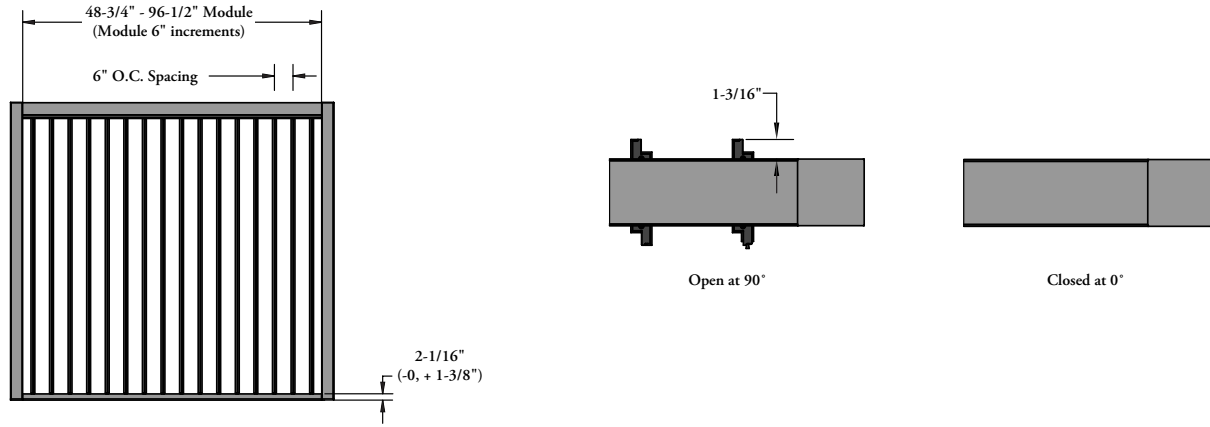
closed

Louvers shown below are in the fully closed position.

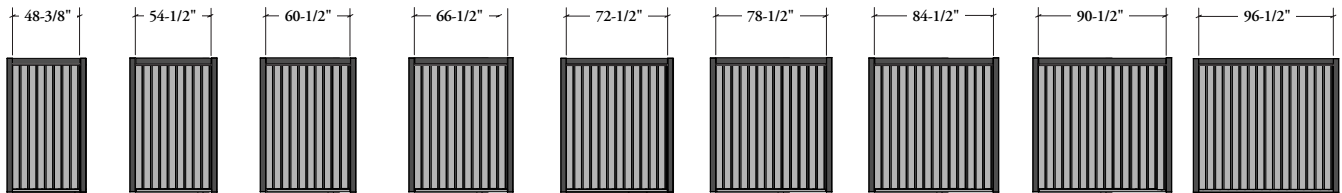


planning with louvers (continued)

The following should be considered when planning with louvers.



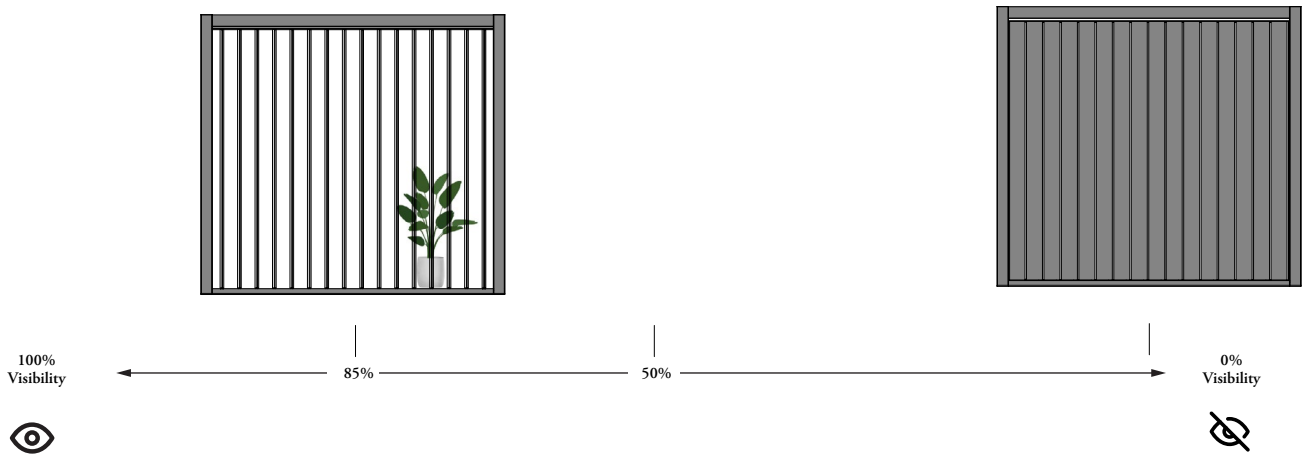
The following outline the module sizes for the Louvers.



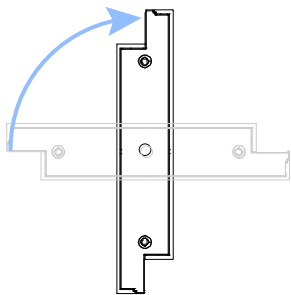
When ordering louvers 2x FJIT(VC) Installation Tool is required to install the Louvers Frame Kit FJVF. Can be reused throughout a project.

planning with louvers (continued)

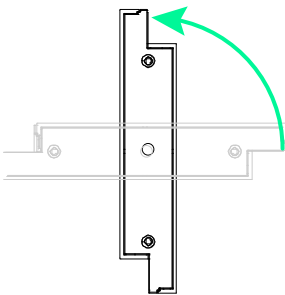
The image below depicts the approximate visibility through the louver when fully open and fully closed.



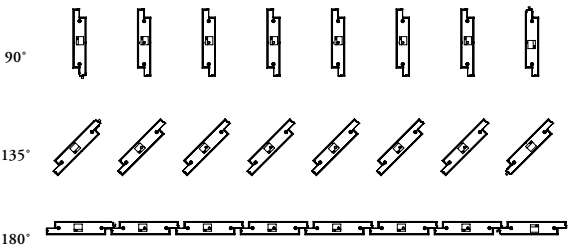
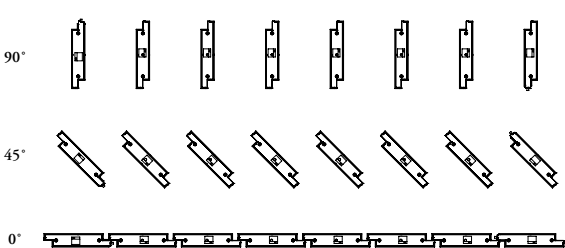
The louver have the options to pick rotational handedness, see option below:



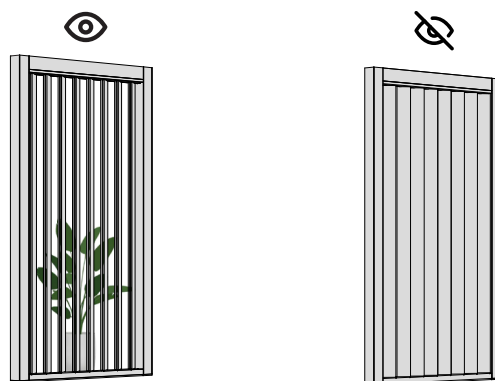
Clockwise
0° - 90°



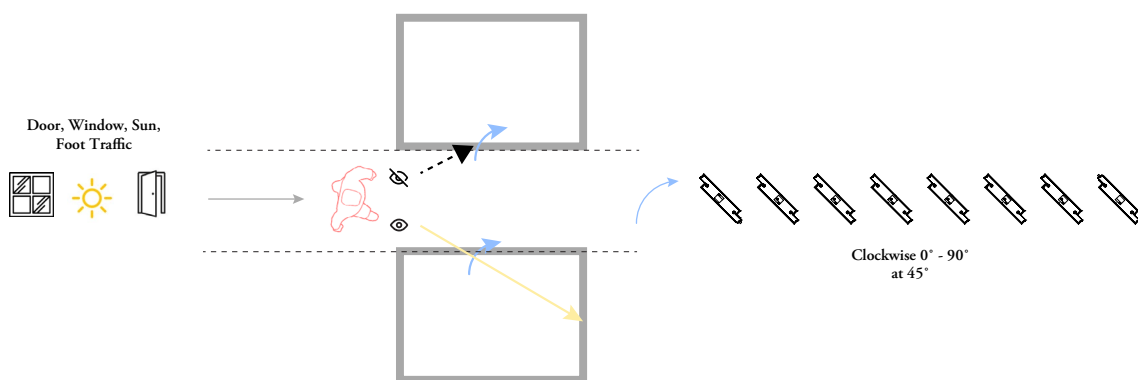
Counterclockwise
180° - 90°



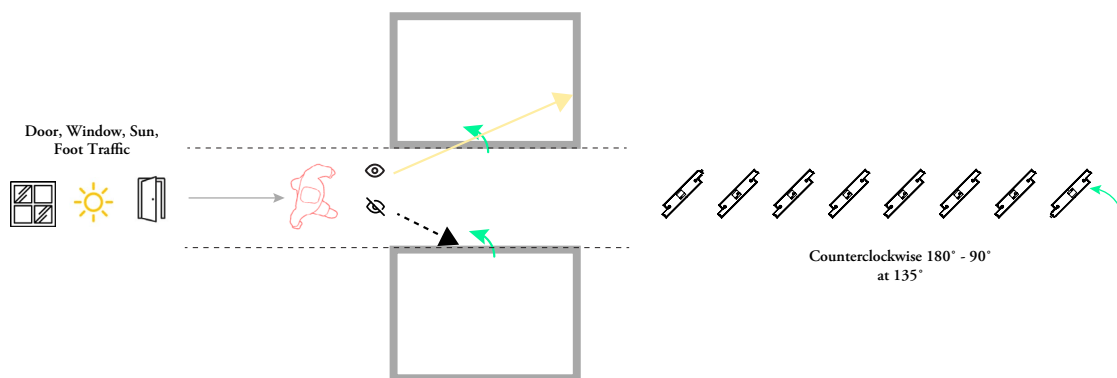
planning with louvers (continued)



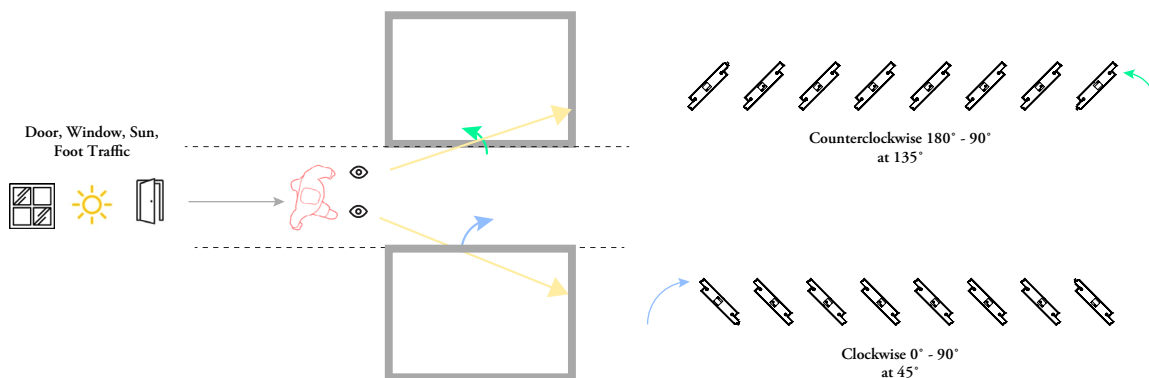
Louvers set at 45° or 135°



Clockwise 0° - 90°
at 45°



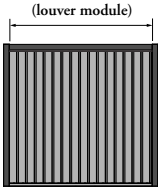
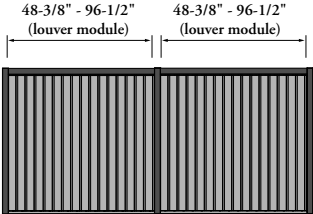
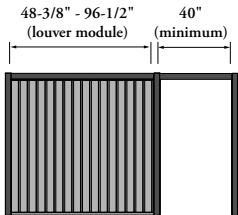
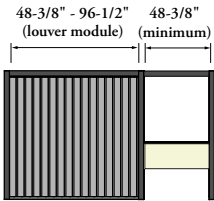
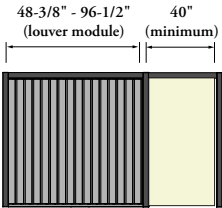
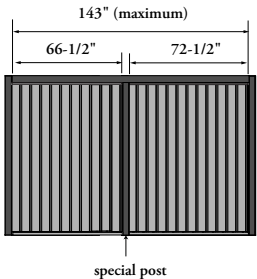
Counterclockwise 180° - 90°
at 135°



Clockwise 0° - 90°
at 45°

planning with louvers (continued)

Louvers can be placed in an opening from a post to post and be adjacent to other Within Infill options , see examples below:

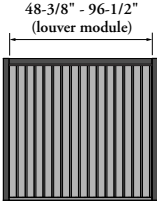
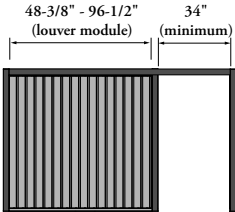
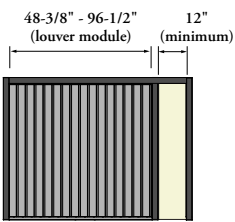
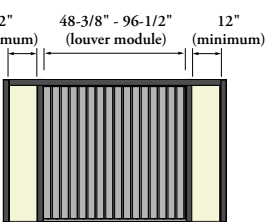
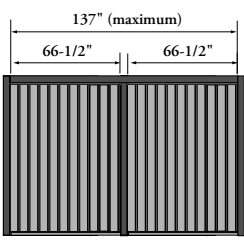
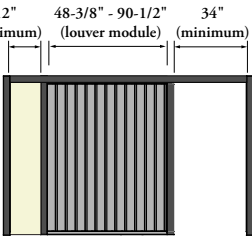
 <p>(louver module)</p>	<p>Post to Post</p> <p>Module width must equal beam length.</p>
 <p>48-3/8" - 96-1/2" (louver module) 48-3/8" - 96-1/2" (louver module)</p>	<p>Post to Post + Post to Post</p> <p>Multiple louver module can be placed adjacent to each other for longer runs.</p>
 <p>48-3/8" - 96-1/2" (louver module) 40" (minimum)</p>	<p>Post to Post + Opening</p> <p>Louver modules can be placed adjacent to an opening . Minimum beam length of 40" required.</p>
 <p>48-3/8" - 96-1/2" (louver module) 48-3/8" (minimum)</p>	<p>Post to Post + Worksurface</p> <p>Louver modules can be placed adjacent to an worksurface.</p>
 <p>48-3/8" - 96-1/2" (louver module) 40" (minimum)</p>	<p>Post to Post + Infill</p> <p>If it is a single Beam on the opposite side of this Within structure, the maximum Louver module would be 90-1/2". Louver modules can be placed adjacent to an worksurface.</p>
 <p>143" (maximum) 66-1/2" 72-1/2" special post</p>	<p>Post to Post + Post to Post (special)</p> <p>A special post can be used under the beam for retrofit or new applications.</p>

planning with louvers - retrofitting to existing within

The following are examples retrofitting the louvers to a existing Within with a Retrofitting Post, available only as special.

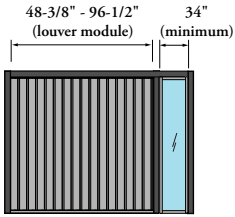
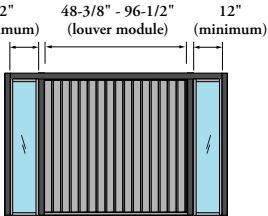
If the existing Within Beam Length (L), maximum 144-7/8", minimum = Louver width minimum 48-3/8".

Here are the retrofitted Louver module examples:

	<p>Louver modules matches Beam</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify the matching Louver module
	<p>Fits between one Post and the Retrofitting Post</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify Louver module (6" increment) 3. Add Retrofitting Post to the open end of Louver (4" nominal) 4. Opening need to be minimum 34"
	<p>Fits between one Post and the Retrofitting Post, with infills on the other side</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify Louver module (6" increment) 3. Add Retrofitting Post to the open end of Louver (4" nominal) 4. Specify the infill matching the opening left (1/8" increment) 5. Infill minimum 12"
	<p>Fits in the middle with Retrofitting Posts on both sides, and infills filling the open spaces</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify Louver module (6" increment) 3. Add Retrofitting Posts to each end of Louver (4" nominal each) 4. Specify the 2 infills to fill the openings and reach a visual balance (1/8" increment) 5. Infills minimum 12"
	<p>Two Louvers modules with a Retrofitting Post in between</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify the first Louver module (6" increment) 3. Add Retrofitting Post to the open end of the first Louver module (4" nominal) 4. Check if the space left can match a second Louver module 5. Two Louver + Retrofitting Post equal to the Beam length, and maximum 144-7/8"
	<p>Infill + Louver with Retrofitting Posts and an opening</p> <ol style="list-style-type: none"> 1. Specify existing Beam Length (L) 2. Specify the infill (1/8" increment), and the Retrofitting Post on its open end (4" nominal) 3. Specify the Louver module can be used to satisfy the minimum 34" opening requirement (6" increment) 4. Add Retrofitting to the Louver's open end (4" nominal) 5. Check if the opening left is 34" minimum

planning with louvers - retrofitting to existing within (continued)

If the existing Within Beam length (L), maximum 144-7/8", minimum = Louver width minimum 48-3/8".
Here are the retrofitted Louver module examples:

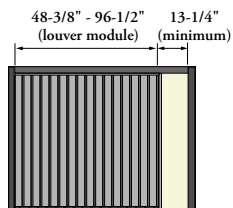
 <p>The diagram shows a louver module with a width of 48-3/8" to 96-1/2" and a glass infill of 34" minimum on the right side.</p>	<p>Fits between one Post and the Retrofitting Post, with Glass infills on the other side</p> <ol style="list-style-type: none">1. Specify existing Beam Length (L)2. Specify Louver module (6" increment)3. Add Retrofitting Post to the open end of Louver (4" nominal)4. Specify the Glass infill
 <p>The diagram shows a louver module with a width of 48-3/8" to 96-1/2" and glass infills of 12" minimum on both sides.</p>	<p>Louver with Retrofitting Posts on both sides, and Glass infills filling the open spaces</p> <ol style="list-style-type: none">1. Specify existing Beam Length (L)2. Specify Louver module (6" increment)3. Add Retrofitting Posts to each end of Louver (4" nominal each)4. Specify the two Glass infills to fill the openings and reach a visual balance5. Glass infills minimum 12"

planning with louvers - retrofitting to existing within (continued)

The following are examples retrofitting the louvers to a existing Within with a infill and finish wall end.

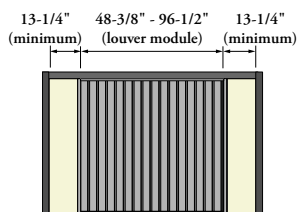
If the existing Within Beam length (L), maximum 144-7/8", minimum = Louver width minimum 48-3/8".

Here are the retrofitted Louver module examples:



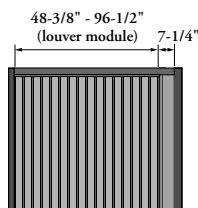
Louver with infill and finish wall end

1. Specify existing Beam Length (L)
2. Specify Louver module (6" increment)
3. Specify the Infill with finish wall end (1/8" increment)
4. Infill with finish wall end minimum 13-1/4"



Louver in the middle with infills and finish wall ends on the sides

1. Specify existing Beam Length (L)
2. Specify Louver module (6" increment)
3. Specify the two infills with finish wall end to fill the openings and reach a visual balance (1/8" increment)
4. Infills with finish wall end minimum 13-1/4"



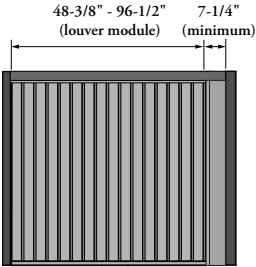
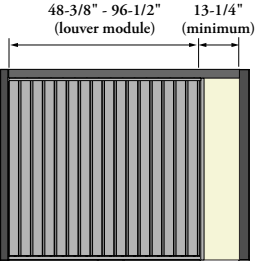
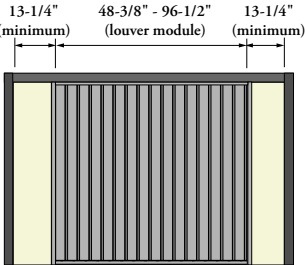
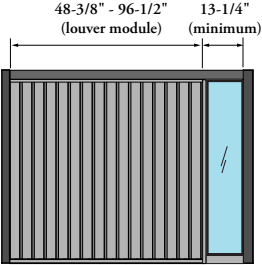
Aluminum infill with finish wall end with Louver

1. Specify existing Beam Length (L)
2. Specify aluminum infill with finish wall end 7-1/4"
3. Specify the Louver module matching the opening left (6" increment)

louver sizes

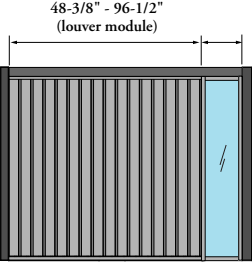

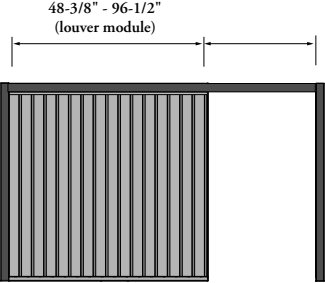

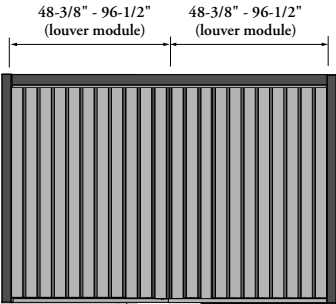

The following outlines the size range for screens.

Louvers can be placed in an opening from a post to finished wall end or finished wall end to finished wall end , see examples below:

	✓	<p>Post to Finished Wall End + Aluminum Fascia Kit</p> <p>Beam length must equal louver module width + finish wall end and fascia kit width.</p>
	✓	<p>Post to Finished Wall End + Infill One Side</p> <p>Beam length must equal louver module width + finish wall end and infill width.</p>
	✓	<p>Finished Wall End to Finished Wall End + Infill Two Sides</p> <p>Beam length must equal louver module width + two finish wall ends and two infill widths.</p>
	✓	<p>Post to Finished Wall End + Infill Full Glass Wall One Side</p> <p>Beam length must equal louver module width + finish wall end and infill width.</p>

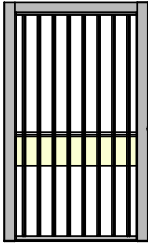
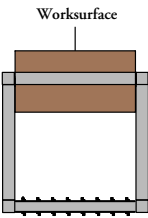
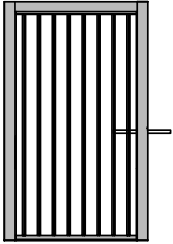
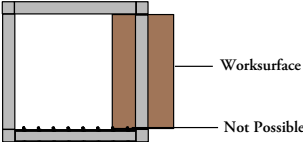
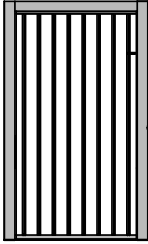
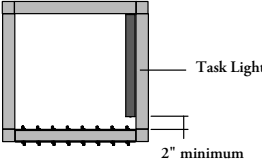
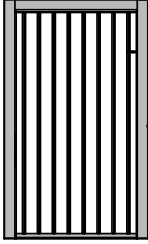
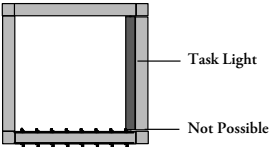
louver sizes (continued)

Louvers cannot be placed directly adjacent to any other infills or an openings without a post or finished wall end, see examples below:

		<p>Post to Finished Wall End + Glass Infill NOT POSSIBLE.</p>
		<p>Louver Adjacent to Opening NOT POSSIBLE.</p>
		<p>Louver Adjacent to Louver NOT POSSIBLE.</p>

louver sizes (continued)

Louvers required clearance when open which restricts specific combinations with some components, see below:

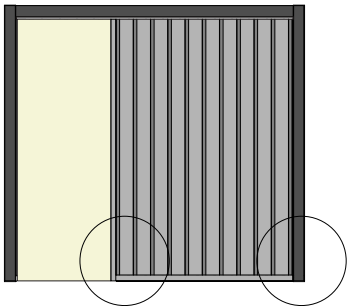
 Elevation View	 Plan View	✓	Louvers can be placed opposite to a worksurface when their module size matches. Example: 48-3/8" louver with a 48-3/8" worksurface
 Elevation View	 Plan View	✗	Louvers cannot be placed directly perpendicular to a worksurface.
 Elevation View	 Plan View	✓	Louvers can be placed perpendicular to a task light when the light is a minimum of 2" from the structural post is applied.
 Elevation View	 Plan View	✗	Louvers cannot be placed directly perpendicular to a task light.

application guide

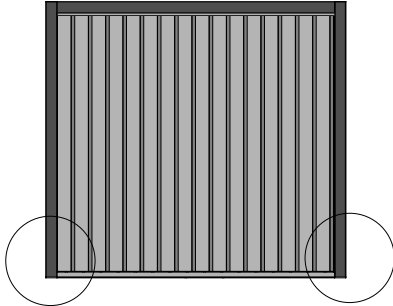
planning with louver frame kits

The following outlines the Louver Frame Kit application options when coordinating with structural post Floor Weldments

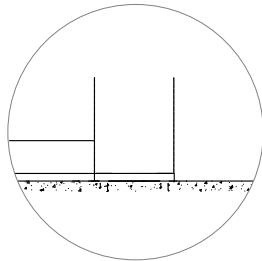
Louvers can be placed in an opening from a post to finished wall end or finished wall end to finished wall end , see examples below:



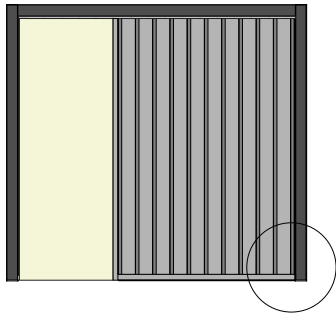
Louver Frame Kit
FJVF Both Sides Standard (S2)



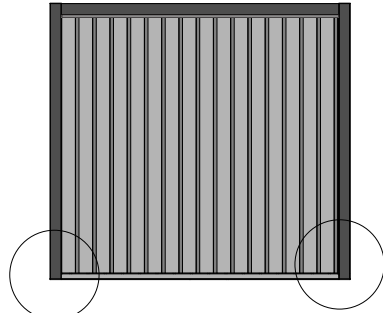
Louver Frame Kit
FJVF Both Sides Standard (S2)



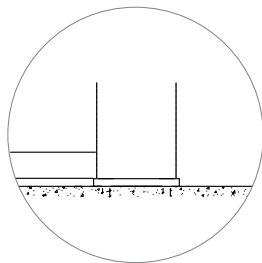
Floor Weldment Standard
FJSPWS (S)



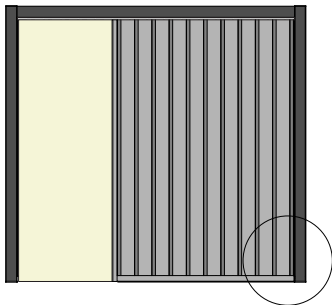
Louver Frame Kit
FJVF One Side 4-1/4" x 4-1/4" (T1)



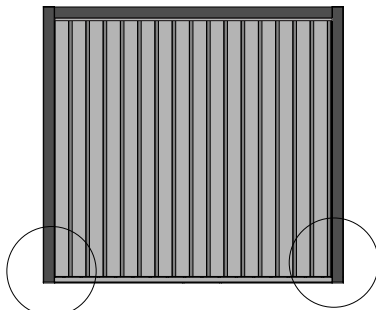
Louver Frame Kit
FJVF Both Sides 4-1/4" x 4-1/4" (T2)



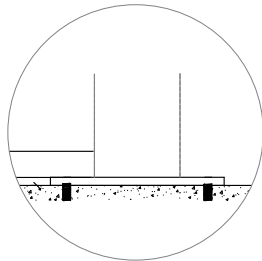
Floor Weldment 4-1/4" x 4-1/4"
FJSPW (T or U)



Louver Frame Kit
FJVF One Side 8" x 8" (V1)



Louver Frame Kit
FJVF Both Sides 8" x 8" (V2)



Floor Weldment 8" x 8"
FJSPW (V)

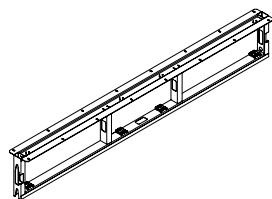
worksurfaces

worksurfaces

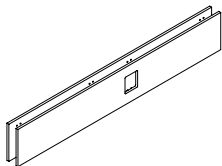
WORKSURFACE BASICS	100
PLANNING WITH WORKSURFACES	101
WORKSURFACES FINISHES.	102
PLANNING WITH WORKSURFACES, POSTS & BEAMS	103
PLANNING WITH WORKSURFACES & ELECTRICS	105

worksurface basics

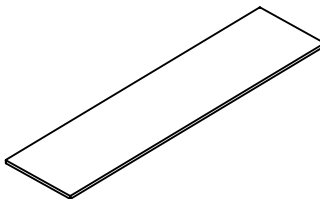
Worksurfaces consist of the following components.



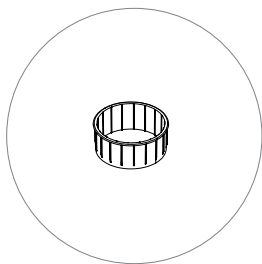
- Worksurface Framework Kit (FJTWFK)**
- Width: 48" - 96" (6" increments)
 - Modesty Height:
 - Full
 - 12" Partial
 - Wall Gasket Finish:
 - Ebony
 - Platinum
 - Very White



- Fascia Package for Bar Height Worksurface (FJTLFP)**
- Width: 48" - 96" (6" increments)
 - Modesty Height:
 - Full
 - 12" Partial
 - Electrical Cut Out:
 - Single-Sided Center
 - Double-Sided Center
 - Single-Sided Two Offset
 - Double-Sided Two Offset



- Bar Height Worksurface (FJTWSF)**
- Width: 48" - 96" (6" increments)
 - Depth: 24"
 - Cutout:
 - Single-Sided - Centered
 - Double-Sided - Centered
 - Single-Sided - Two Offset Cut Out
 - Double-Sided Two Offset Each Side
 - Surface Finish:
 - Foundation
 - Flintwood



- Worksurface Ring Grommet (FJTWDG)**
- Round
 - Finish:
 - Platinum

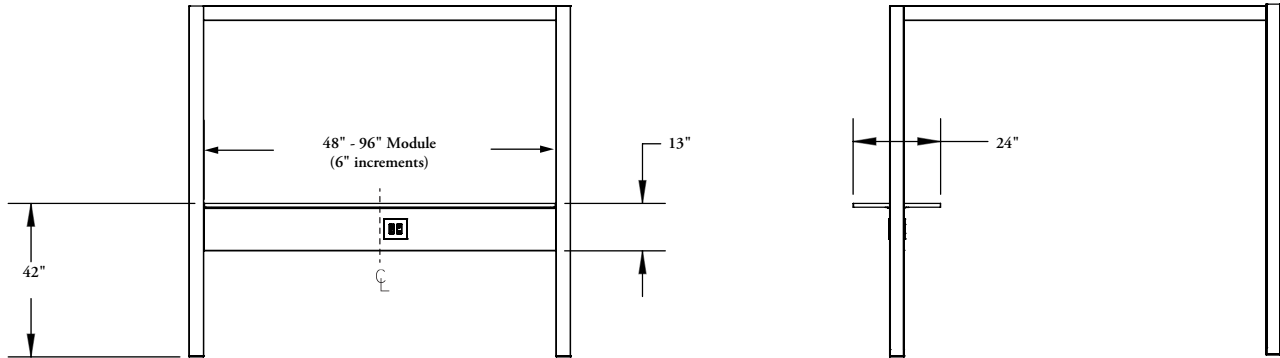
application guide

planning with worksurfaces

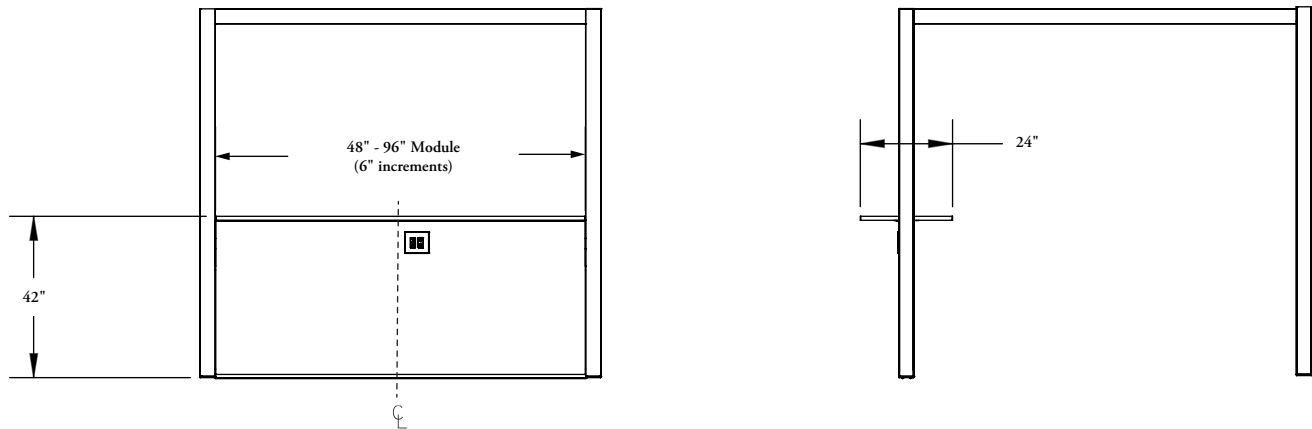
The following should be considered when planning with worksurfaces.

All dimension are nominal.

12" partial modesty



full modesty



The following chart outlines the module widths and the required widths to be specified with the associated components

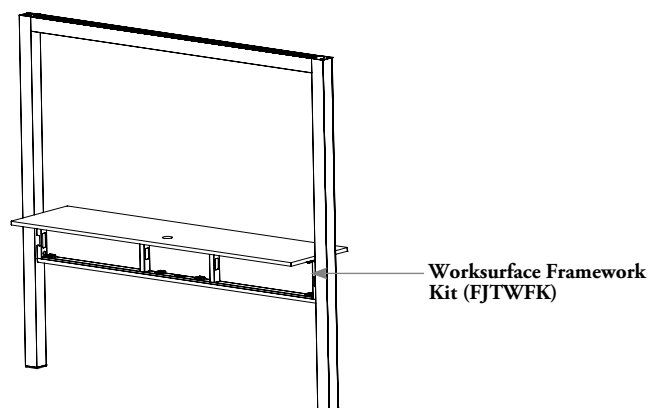
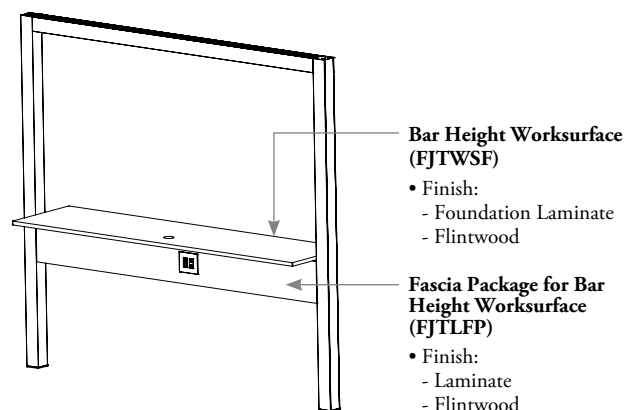
- Worksurface module drives Structural Beam Kit (FJSBK) width

Module Width	Worksurface Framework Kit (FJTWFK) Width	Bar Height Worksurface (FJTWSF) Width	Fascia Package (FJTLFP) Width	Structural Beam Kit (FJSBK) Width
48"	48-3/8"	48-3/8"	48-3/8"	48-3/8"
54"	54-1/2"	54-1/2"	54-1/2"	54-1/2"
60"	60-1/2"	60-1/2"	60-1/2"	60-1/2"
66"	66-1/2"	66-1/2"	66-1/2"	66-1/2"
72"	72-1/2"	72-1/2"	72-1/2"	72-1/2"
78"	78-1/2"	78-1/2"	78-1/2"	78-1/2"
84"	84-1/2"	84-1/2"	84-1/2"	84-1/2"
90"	90-1/2"	90-1/2"	90-1/2"	90-1/2"
96"	96-1/2"	96-1/2"	96-1/2"	96-1/2"

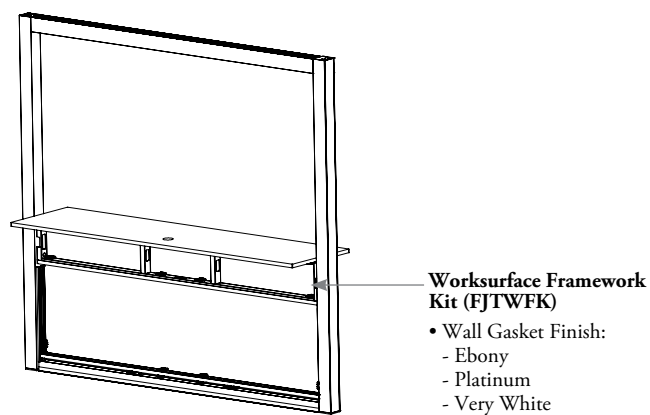
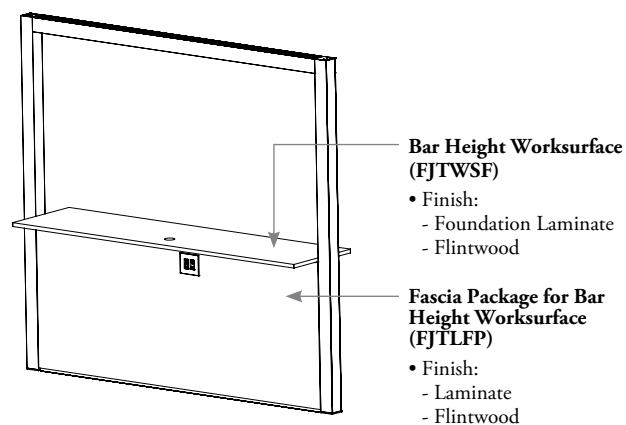
worksurfaces finishes

The following shows two options for modesty panels below the worksurface.

12" partial modesty



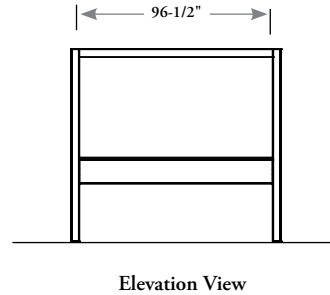
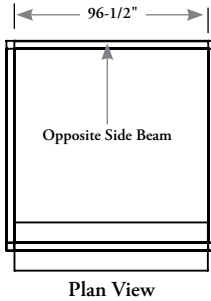
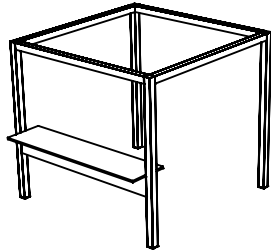
full modesty



planning with worksurfaces, posts & beams

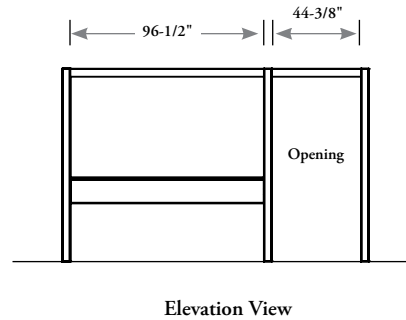
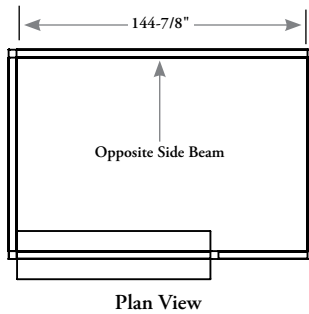
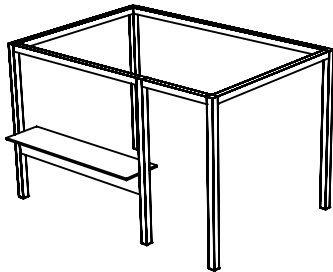
The following shows the placement options for a worksurface in a frame post and beam.

post to post



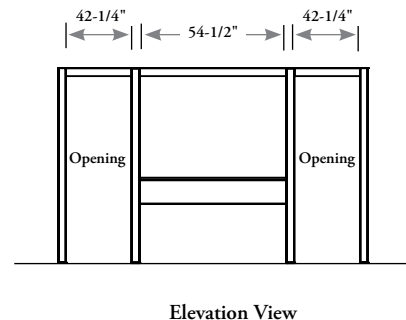
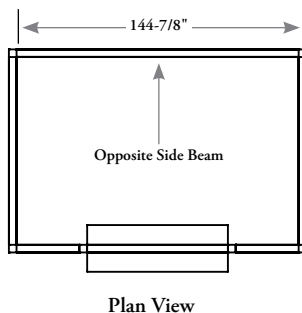
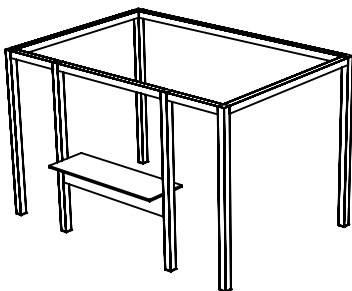
The maximum dimensional width of a worksurface from post to post is $96-1/2"$.
For the opposite side beam to be continuous it must equal the dimensional width of the worksurface.

post to auxiliary post



The maximum dimensional width of a worksurface from post to post is $96-1/2"$.
For the opposite side beam to be continuous it must equal the dimensional width of the worksurface plus the opening width which can be max $44-3/8"$, plus the post width $4"$.

auxiliary post to auxiliary post



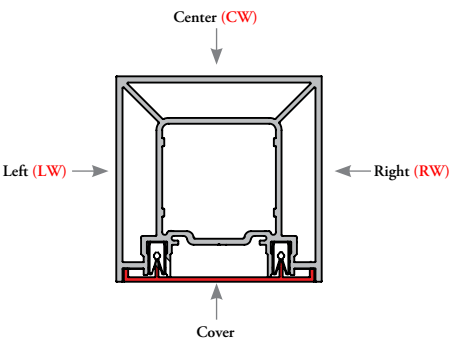
For the opposite side beam to be continuous the dimensional maximum width of the worksurface from auxiliary post to auxiliary post is $54-1/2"$.

planning with worksurfaces, posts & beams (continued)

Depending on the chosen configuration the post will need to be selected based on the application.

- Below shows the side a worksurface can be connected to (Left, Center and Right)
- Refer to the table below to see which combinations are possible and the post required for the connection
 - Post cover side is marked with the red line to identify post orientation

Structural Post (FJSPS)

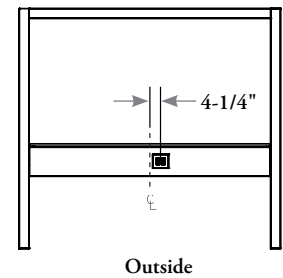
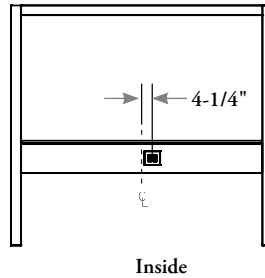
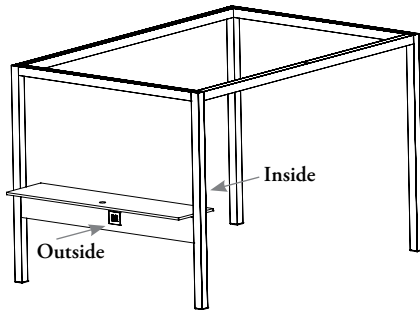


Elevation View	Plan View		
	<div><div></div></div>	✓	Worksurfaces can be placed on the left or right side of a post. or Worksurfaces can be placed on the center of a post.
	<div><div></div></div>	✓	Worksurfaces must be placed simultaneously on a left and right hand side of a post when between two worksurfaces. The non-handed cover can be on the inside or outside of the space.
	<div></div>	✗	Worksurfaces cannot be placed of the cover side of a post.
	<div></div>	✗	Worksurfaces cannot be placed on both a left or right side of a post and the center side of the same post.

planning with worksurfaces & electrics

The following shows the placement options for outlets in a worksurface.

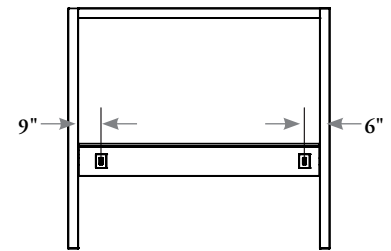
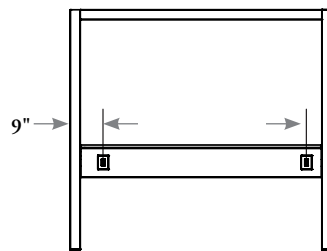
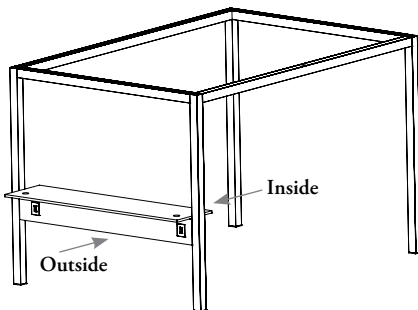
Applies to partial and full modesty fascias.



Centered Cutout

- Single sided or double sided
- Outlets are always double outlets

Centered outlets always require a minimum of 1x double power data module (EPDMDFJ) and can be added to both the inside and outside for a total of two.

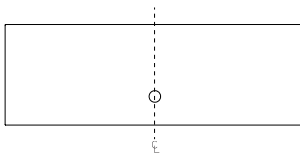


Two Offset Cutouts

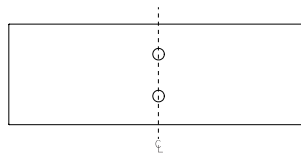
- Single sided or double sided
- Outlets are always single outlets

Offset outlets always required a minimum of 2 x single power data modules (EPDMDFJ) and can be added to both the inside and outside for a total of four.

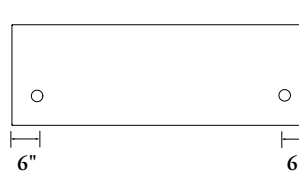
When adding worksurface cut outs the locations should match the cut out locations in the worksurface fascias. See electrics section for wire routing.



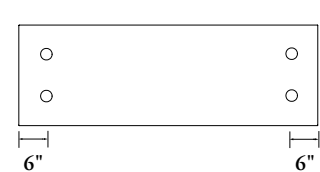
Single-Sided Center Cut Out (N1)



Double-Sided Center Cut Out (11)



Single-Sided Two Offset Cut Outs (N2)



Double-Sided Two Offset Cut Outs (22)



← Grommet for hole specified one per hole (FJTWDG).

baffles

baffles

BAFFLES BASICS 108

PLANNING WITH BAFFLES 110

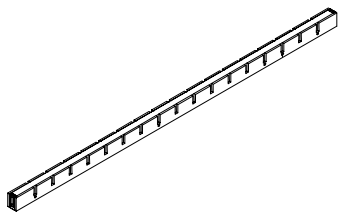
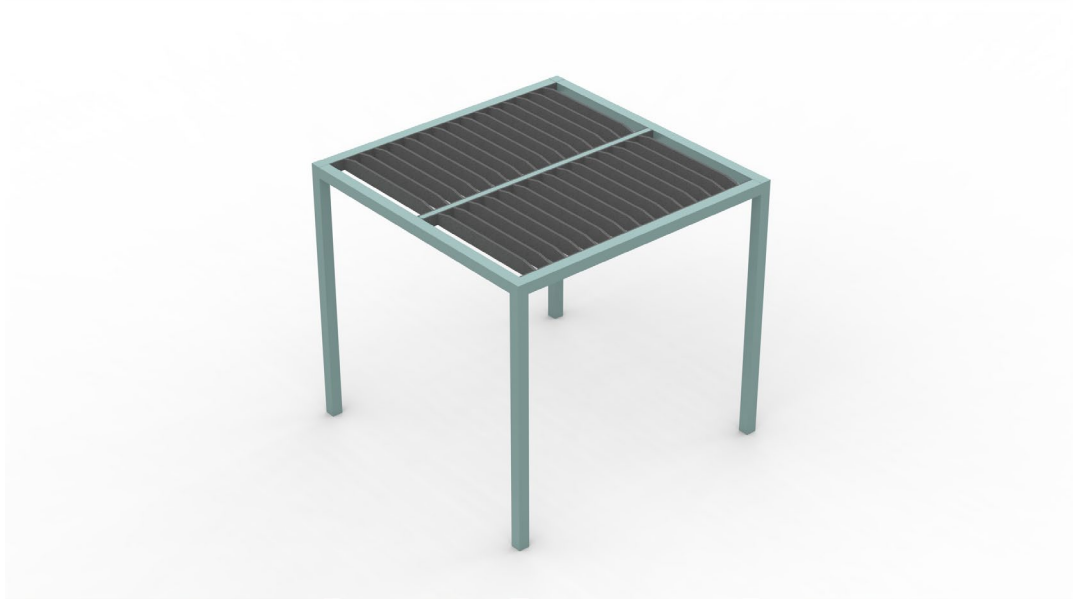
BAFFLE WIDTHS & FINISHES 116

CROSSBEAM DETAILS & FINISHES 118

SPECIFYING BAFFLES 119

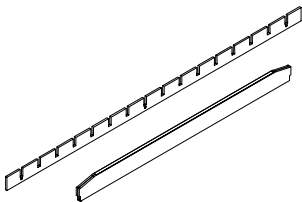
baffles basics

Baffles consist of the following components.



Crossbeam (FJBB)

- Length 40" - 144-7/8" (1/8" increments)
- Crossbeam Trim prep style: Both sides (B) or Single side (S)
- Crossbeam Paint Finish:
 - Foundation
 - Mica
 - Accent
- Trim Smooth Felt Finish:
 - Lunar
 - Pewter
 - River Rock
 - Sumac
 - Admiral Blue



Baffles (FJBF)

- Length: 35" - 72" (1/16" increments)
- Trim: 40"- 144-7/8" (1/8" increment)
- Baffle and Trim Smooth Felt Finish:
 - Lunar
 - Pewter
 - River Rock
 - Sumac,
 - Admiral Blue
- Baffle Stiffener Paint Finish:
 - Anthracite
 - Platinum
 - Sand
 - Brickstone
 - Ocean Abyss



(LJ)



(CR)



(BT)



(LS)



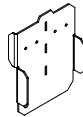
(HJ)



(GJ)



(NT)



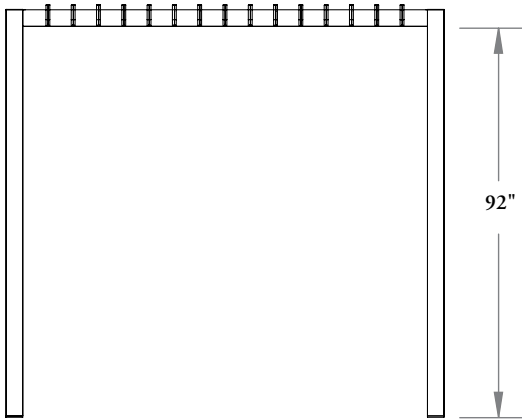
(VC)

Install tool kit (FJIT)

- Crossbeam Positioning Template

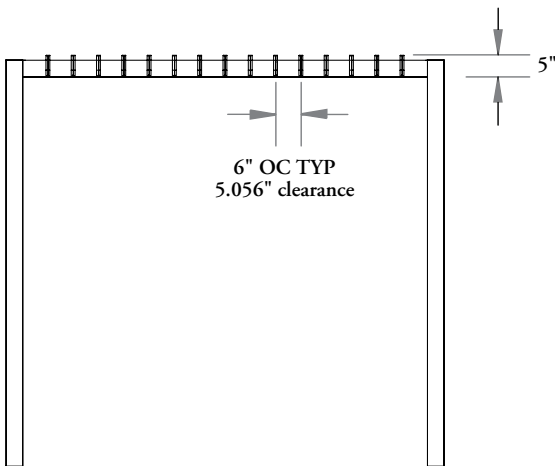
baffles basics (continued)

Baffles need to comply with the following requirements.



Minimum ceiling height requirement:

- The bottom of the baffle is flush with the bottom of the beam, 92" away from the floor
- A minimum of 90" from the floor is

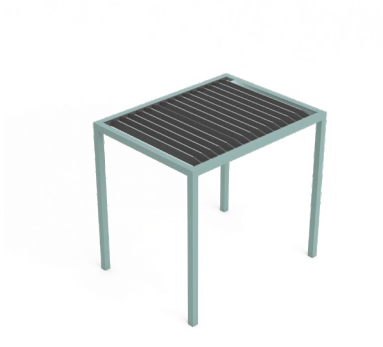


Open ceiling requirement:

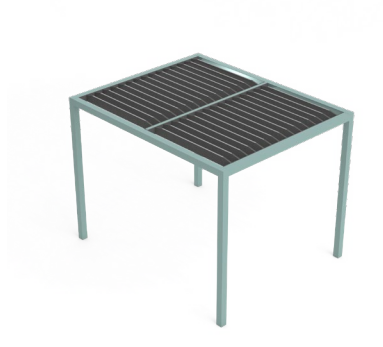
- The opening consists of 70% or more of the ceiling
- The vertical obstacle's height is not higher than the opening

planning with baffles

The following outlines the common configurations when applying screens between two posts.



Full Ceiling Coverage without Crossbeam



Full Coverage with Crossbeam



Full Coverage with Two Crossbeams



Partial Coverage - Side




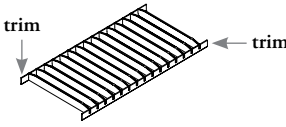

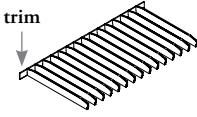
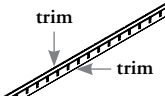

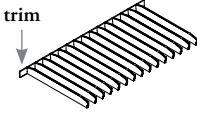
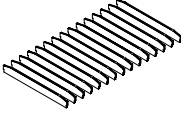
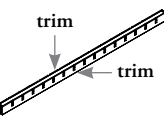

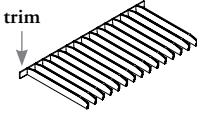
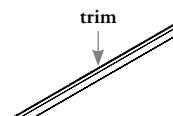
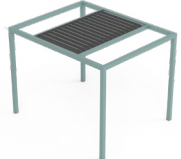
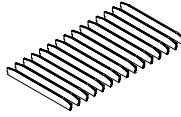
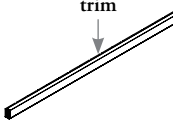

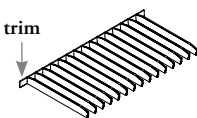
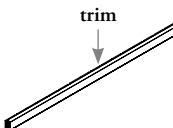
Partial Coverage - Center



Partial Coverage - Two Sides

planning with baffles (continued)

The following outlines the components of the six common configurations when applying baffles to a Within structure.

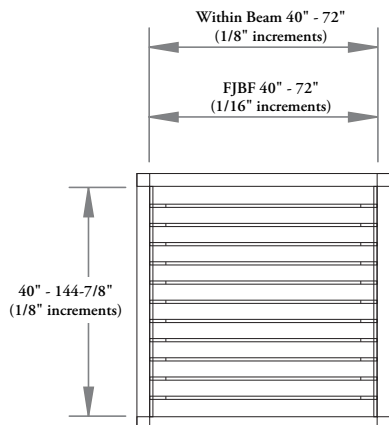
	 FJBF (W) x1	Full coverage <ul style="list-style-type: none"> Baffles (FJBF) mounting style (W), includes trims on both sides No Crossbeam (FJBB)
	 FJBF (S) x2  FJBB (B) x1	Full coverage <ul style="list-style-type: none"> Two Baffles (FJBF) mounting style (S) includes one trim on one side Crossbeam (FJBB) mounting style (B) includes trims on both sides
	 FJBF (S) x2  FJBF (B)  FJBB (B) x2	Full coverage <ul style="list-style-type: none"> Two Baffles (FJBF) mounting style (S) includes one trim on one side One Baffle (FJBF) mounting style (B) without trim Two Crossbeams (FJBB) mounting style (B) includes trims on both sides
	 FJBF (S) x1  FJBB (S) x1	Partial coverage <ul style="list-style-type: none"> Baffles (FJBF) mounting style (S) includes one trim on one side Crossbeam (FJBB) mounting style
	 FJBF (B) without trim  FJBB (S) x2	Partial coverage <ul style="list-style-type: none"> Baffles (FJBF) mounting style (B) excludes trim; Two Crossbeams (FJBB) mounting style (S) both includes one trim on one side.
	 FJBF (S) x2  FJBB (S) x2	Partial coverage <ul style="list-style-type: none"> Two Baffles (FJBF) mounting style (S) includes one trim on one side Two Crossbeams (FJBB) mounting style (S) both includes one trim on one side

When ordering a configuration with at least one crossbeam an Installation Tool, Crossbeam Positioning Template (FJITBT) is required to install crossbeam. Can be reused throughout the project.

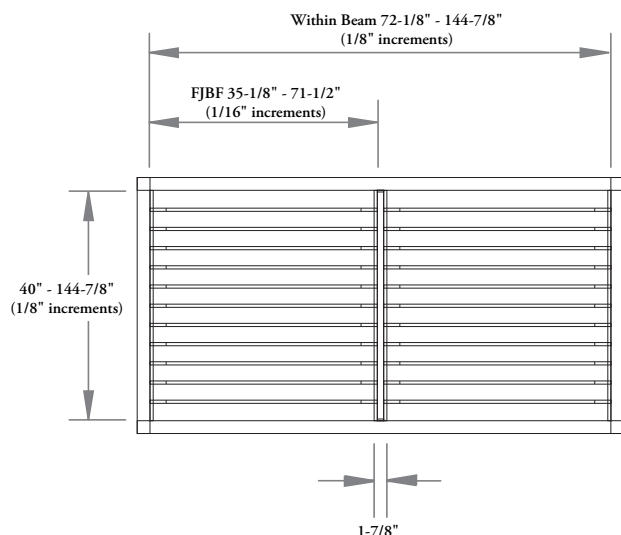
planning with baffles (continued)

The following outlines the size range of baffles in full ceiling coverage.

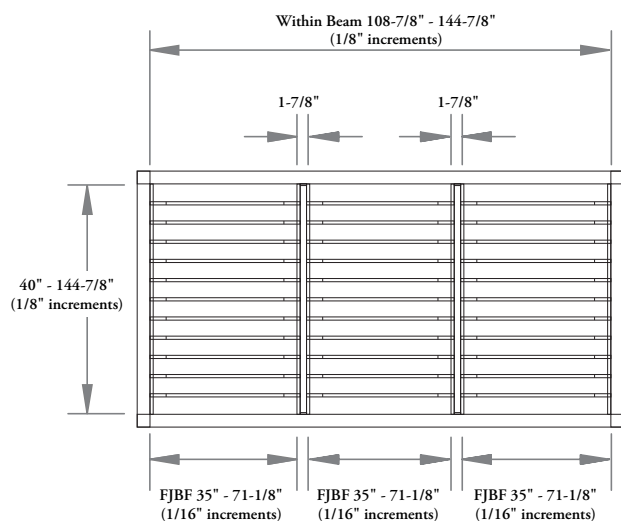
Full Ceiling Coverage



- Within ceiling opening from 40" to 72" wide can be fully covered by Baffles without Crossbeam, each single baffle blade size 40" to 72" (40_A - 72_A)
- 35" to 39-15/16" (35_A - 39_P) will be restricted in this application



- Within ceiling opening from 72-1/8" to 144-7/8" wide can be fully covered by Baffles with a Crossbeam(1-7/8"), each single baffle blade size 35-1/2" to 71-1/2" (35_I - 71_I)

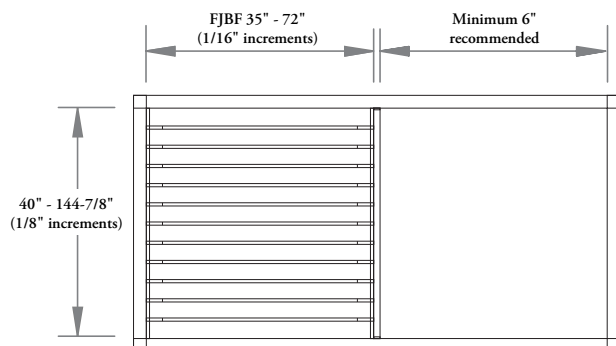


- Within ceiling opening from 108-7/8" to 144-7/8" wide can be fully covered by Baffles with two Crossbeams (1-7/8")
- The length of the three baffle blades won't be equal size
- The length of the three baffle blades with the two Crossbeams (1-7/8") equals the total Within ceiling opening width

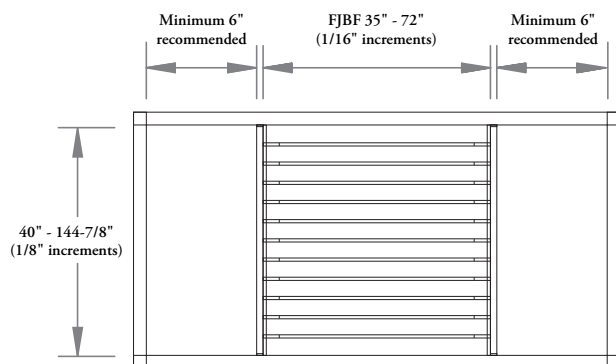
planning with baffles (continued)

The following outlines the size range of baffles in partial ceiling coverage.

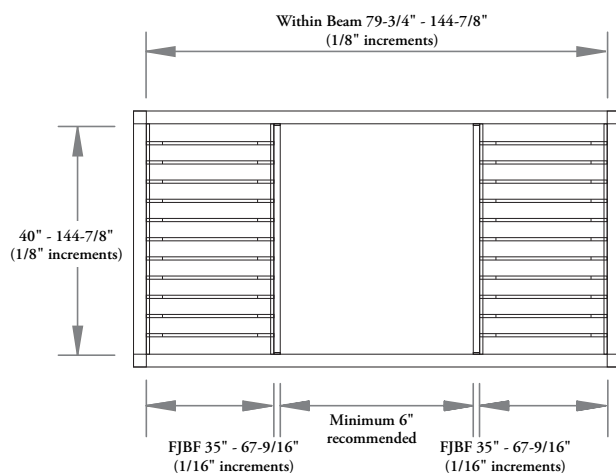
Partial Ceiling Coverage with Crossbeam



- Within ceiling opening from 42-7/8" to 144-7/8" wide can be partially covered by Baffles with one Crossbeam (1-7/8"), only on one side. Each baffle blade's size ranges from 35" to 72" (35_A - 72_A).
- Gap minimum 6" wide. recommended



- Within ceiling opening from 50-3/4" to 144-7/8" wide can be partially covered by Baffles in the center. Each baffle blade's size ranges from 35" to 72" (35_A - 72_A)
- Gaps on the sides minimum 6" wide recommended
- Two Crossbeams (1-7/8") will be used

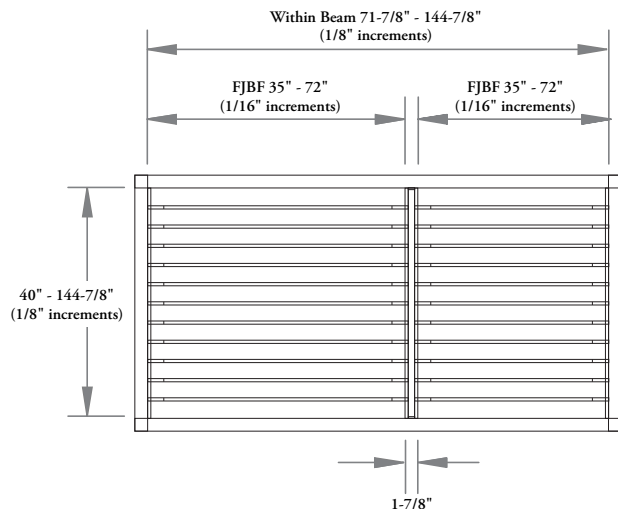


- Within ceiling opening from 79-3/4" to 144-7/8" wide can be partially covered by Baffles on both sides. Each baffle blade's size ranges from 35" to 67-9/16" (35_A - 67_J)
- Gap minimum 6" wide recommended
- Two Crossbeams (1-7/8") will be used

planning with baffles (continued)

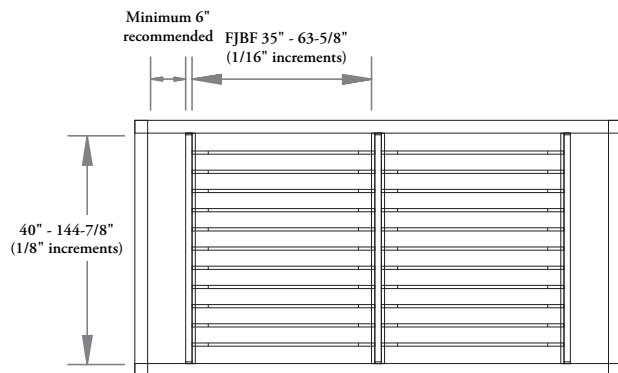
The following shows the less common but possible configurations and the baffle size ranges of these configurations.

Full Ceiling Coverage with Off-Center Crossbeam



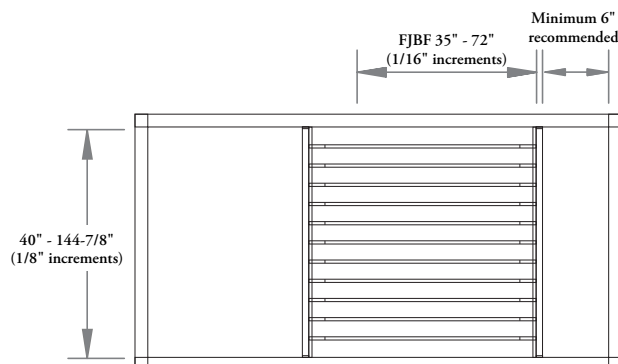
- Within ceiling opening from 71-7/8" to 144-7/8" wide can be fully covered by Baffles with a Crossbeam (1-7/8") off-centered, each single baffle blade size 35" to 72" (35_A - 72_A)
- The length of the two baffle blades plus the Crossbeam (1-7/8") equals the total Within ceiling opening width

Partial Ceiling Coverage with Three Crossbeams



- Within ceiling opening from 87-5/8" to 144-7/8" wide can be partially covered by the Baffles with three Crossbeams (1-7/8") in the center. Each baffle blade's size ranges from 35" to 63-5/8" (35_A - 63_K)
- Gaps on the sides minimum 6" wide recommended
- The length of the two equally sized baffle blades side by side plus the Crossbeam (1-7/8") in the middle equals the total coverage width

Partial Ceiling Coverage Off-Centered with Two Crossbeams


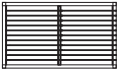

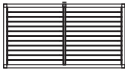
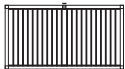
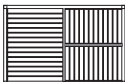


- Within ceiling opening from 50-3/4" to 144-7/8" wide can be partially covered by Baffles with two Crossbeams (1-7/8"). Each baffle blade's size ranges from 35" to 72" (35_A - 72_A)
- Gaps on the sides minimum 6" wide recommended

planning with baffles (continued)

The following shows the other possible and impossible applications of baffles in certain sizes and mounting styles to certain sized Within's.

Top View

	×	<p>The Baffle (FJBF) 35" - 39-15/16" cannot be used in Mounting Style (W).</p> <p>Baffle will be shorter than the structural beam.</p>
	×	<p>The Crossbeam (FJBB) cannot be applied to full ceiling coverage less than 71-3/4".</p> <p>Single baffle will be too long for the opening after the Crossbeam is added.</p>
	×	<p>Baffles (FJBF) cannot be partially applied along the return beam.</p>
	✓	<p>The Crossbeam (FJBB) can be attached to the Within Post. The Vertical Post Cover of the Within Post is installed on the opposite side of the joint.</p>
	✓	<p>Baffle's (FJBF) trim can be attached to the Within Return Beam with a Within Post. The Vertical Post Cover of the Within Post is installed on the opposite side of the trim.</p>
	×	<p>A Crossbeam (FJBB) cannot be applied to another Crossbeam (FJBB).</p>

application guide

baffle widths & finishes

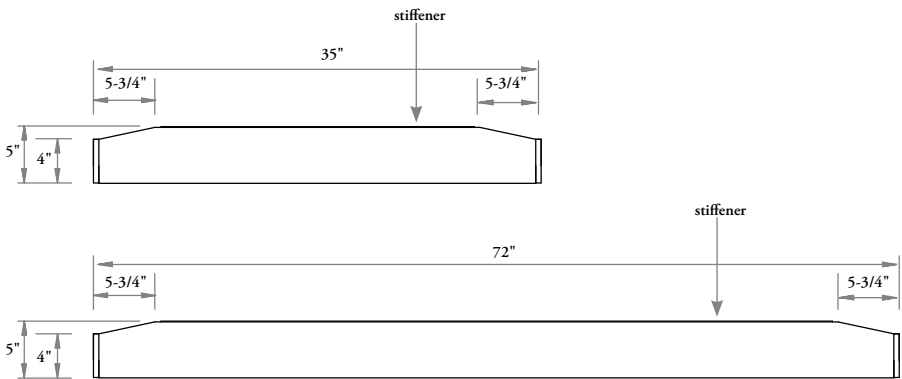
The following shows the sizes of single baffles with or without Crossbeam.

Baffle Sizes

- 35" - 72" (1/16" increments) x 1" thick

Baffle Material

- Made with semi-rigid smooth felt material

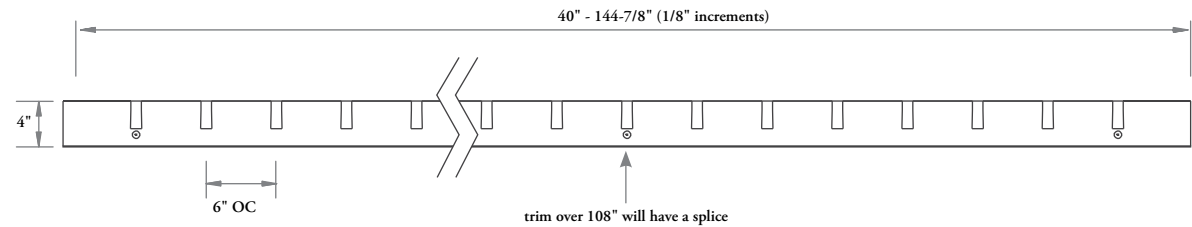


Baffle Finishes

- Baffle and Trim Smooth Felt finishing:
 - Lunar (R6)
 - Pewter (R5)
 - River Rock (QT)
 - Sumac (QS)
 - Admiral Blue (QR)
- Matching Stiffener paint:
 - Anthracite (68)
 - Platinum (60)
 - Sand (27)
 - Brickstone (18)
 - Ocean Abyss (17)

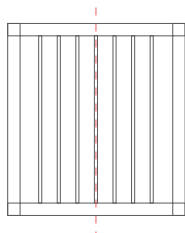
Smooth Felt		Metal Parts Color	
Code	Name	Code	Name
R6	Lunar	68	Anthracite
R5	Pewter	60	Platinum
QT	River Rock	27	Sand
QS	Sumac	18	Brickstone
QR	Admiral Blue	17	Ocean Abyss

The Trim dictates the spacing of the baffle blades and the total quantity of baffles.

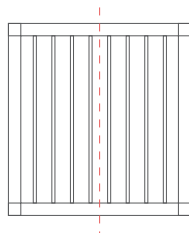


baffle widths & finishes (continued)

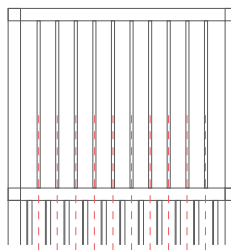
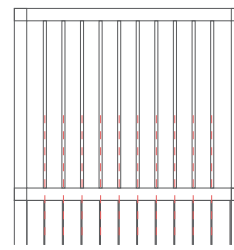
Baffle Positioning



Baffle on center



Space on center

Baffles align with louvers
when louvers are openBaffles align with louver
seams when louvers are
closed

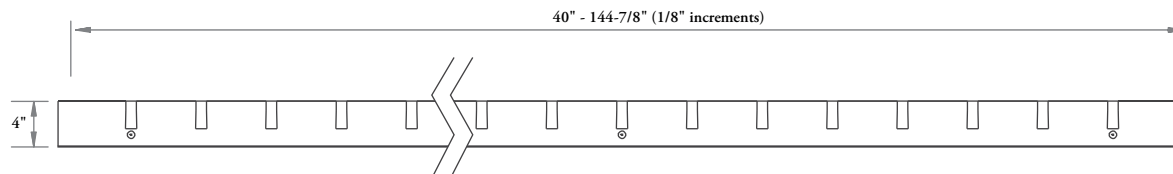
Return Beam Length	Center Condition	
	Baffle On Center	Space On Center
	Number of Baffles	Number of Baffles
40 - 44_7	-	6
45 - 50_7	7	-
51 - 56_7	-	8
57 - 62_7	9	-
63 - 68_7	-	10
69 - 74_7	11	-
75 - 80_7	-	12
81 - 86_7	13	-
87 - 92_7	-	14
93 - 98_7	15	-
99 - 104_7	-	16
105 - 110_7	17	-
111 - 116_7	-	18
117 - 122_7	19	-
123 - 128_7	-	20
129 - 134_7	21	-
135 - 140_7	-	22
141 - 144_7	23	-

crossbeam details & finishes

The following shows the sizes of Crossbeam.

Crossbeam Sizes

- 40" - 144-7/8" (1/8" increments)



Crossbeam Finishes

- Crossbeam Trim Smooth Felt finishing:
 - Lunar (R6)
 - Pewter (R5)
 - River Rock (QT)
 - Sumac (QS)
 - Admiral Blue (QR)
- Crossbeam Paint:
 - Foundation
 - Mica
 - Accent

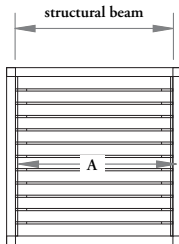
Electric Routing

Crossbeam currently does not involving any Electric Routing capability.

The baffle length is driven by Structural Beam when baffle is covering the full ceiling.

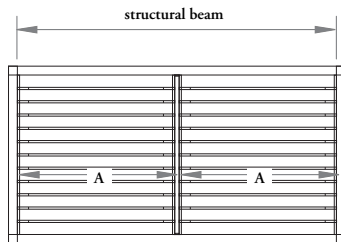
Structural beam drives baffle length.

Without Crossbeam



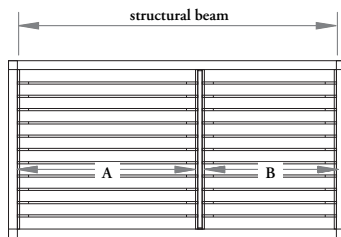
Number of Baffle Blades along Structural Beam	1
Number of Crossbeams	0
Formula - Structural Beam Size	A

With One Crossbeam



Crossbeam in the middle

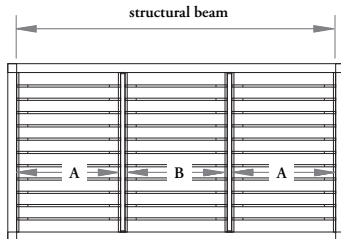
Number of Baffle Blades along Structural Beam	2
Number of Crossbeams	1
Formula - Structural Beam Size	$A + 1\text{'}/8'' + A$



Crossbeam off-center

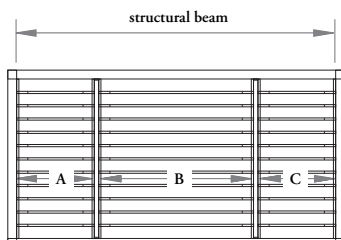
Number of Baffle Blades along Structural Beam	2
Number of Crossbeams	1
Formula - Structural Beam Size	$A + 1\text{'}/8'' + B$

With Two Crossbeams



Three visually equal sections

Number of Baffle Blades along Structural Beam	3
Number of Crossbeams	2
Formula - Structural Beam Size	$A + 1\text{'}/8'' + B + 1\text{'}/8'' + A$



Three sections

Number of Baffle Blades along Structural Beam	3
Number of Crossbeams	2
Formula - Structural Beam Size	$A + 1\text{'}/8'' + B + 1\text{'}/8'' + C$

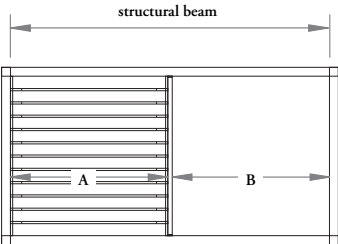
application guide

specifying baffles (continued)

The baffle length is driven by Structural Beam length when baffle is covering partial ceiling.

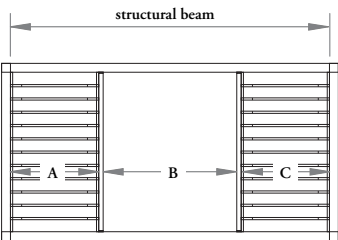
Structural beam drives baffle length.

Baffle Covering One Side of the Ceiling



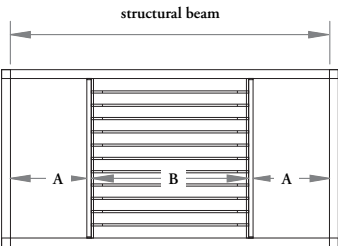
Number of Baffle Blades along Structural Beam	1
Number of Crossbeams	1
Baffle Covered Area	$A + 1\text{-}7/8"$
Uncovered Area	B
Formula - Structural Beam Size	$A + 1\text{-}7/8" + B$

Baffle Covering Two Sides of the Ceiling

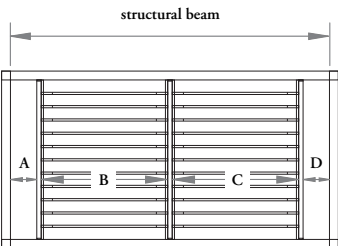


Number of Baffle Blades along Structural Beam	2
Number of Crossbeams	2
Baffle Combined with Crossbeam	$A + 1\text{-}7/8" + 1\text{-}7/8" + C$
Uncovered Area	B
Formula - Structural Beam Size	$A + 1\text{-}7/8" + B + 1\text{-}7/8" + C$

Baffle Covering the Middle of the Ceiling



Number of Baffle Blades along Structural Beam	1
Number of Crossbeams	2
Baffle Covered Area	$1\text{-}7/8" + B + 1\text{-}7/8"$
Uncovered Area	$A + C$
Formula - Structural Beam Size	$A + 1\text{-}7/8" + B + 1\text{-}7/8" + C$



Number of Baffle Blades along Structural Beam	2
Number of Crossbeams	3
Baffle Covered Area	$1\text{-}7/8" + B + 1\text{-}7/8" + C + 1\text{-}7/8"$
Uncovered Area	$A + D$
Formula - Structural Beam Size	$A + 1\text{-}7/8" + B + 1\text{-}7/8" + C + 1\text{-}7/8" + D$

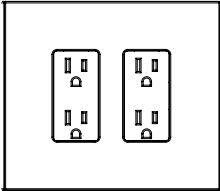
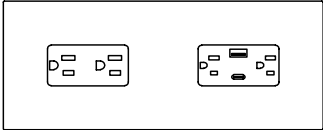
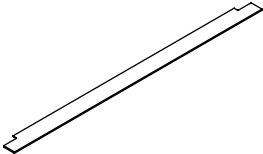
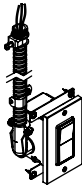
lighting, electrics &
communications

lighting, electrics & communications

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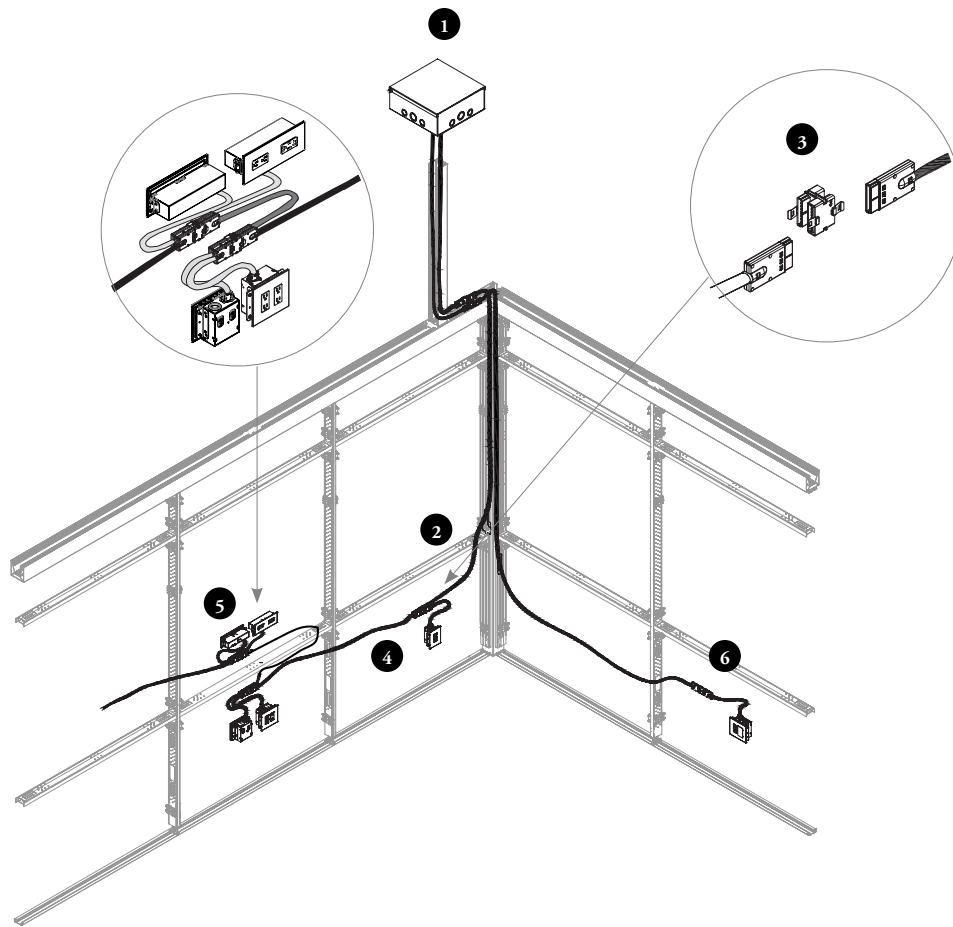
understanding lighting, electrics & communications

There are two methods of supplying power and communications in WithIn, each method functions differently. The following chart will help you select the appropriate solution.

Power Data Electrics	<div>Vertical Outlets (15" AFF)<div></div></div> <div>Horizontal Outlets (35" AFF)<div></div></div> <div><div>Outlets</div><div><ul style="list-style-type: none">• Screwless face plates• Self contained unit for an homogeneous, clean look• Data and power in one box• Single face plate for entire box• Data jacks/faceplates are not included on power data modules• Wire systems 4B, 5D, 7G, 8T, 8K• 120 volts - 15 and 20 amp</div></div>
Hardwire Electrics	<div>Lights (62" or 80" AFF)<div></div></div> <div>Light Switch (42" AFF recommended)<div></div></div> <div><div>Lights</div><div><ul style="list-style-type: none">• Light are hardwire only and always routed interdependently of outlet and communications</div><div><div>Light Switch</div><div><ul style="list-style-type: none">• Light switches are always hardwired and independent of which electrical system is chosen• Light switches are field installed on solid or fabric wrapped fascias and are cut on-site• Light switches are supplied with 20'-0" cable and must be connected to building supply by a qualified electrician• Black or White options available• Wire system - standard circuit, isolated circuit• 120 volts- 15 and 20 amp</div></div></div>

power data electrics overview

WithIn Power Data electrics allow for maximum flexibility and simple reconfiguration



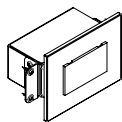
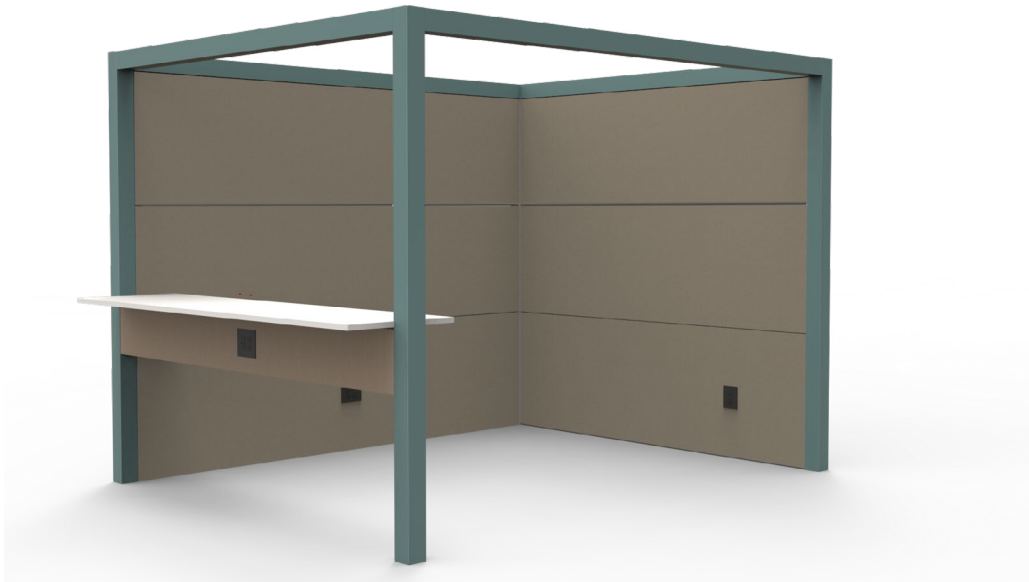
- 1 Power is provided to WithIn walls by a building junction box provided by others
- 2 Power Data **Starter Cable** (EPDSCFJ) - Connects to the building's junction box (by a certified electrician). Cables are fed from the ceiling or from access floors through cut outs in the ceiling or base channels to the Power Data Modules
- 3 **Four-Way Splitters** (EPDDBFJ) - Connects to the Starter Cable and allows daisy chaining as well as back to back
- 4 Power Data **Connecting Harness** (EPDCHFJ) can be specified to link modules or passing through panels without receptacles
- 5 Modules can be mounted back to back to provide power to adjacent offices
- 6 Reaching other power locations can be accomplished by adding an **In-line connector** (EPDICEJ) to lengthen the infeed with a power harness when is end of run, single sided

Power can be accessed through the use of power modules, which are mounted on Fascias at 15" height, or 35" AFF. That is below or above the worksurface respectively (standard cut out locations). Power Data Modules are mounted from behind the fascia by fastening to the fascia.

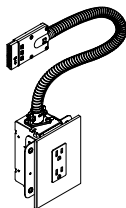
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electrics basics

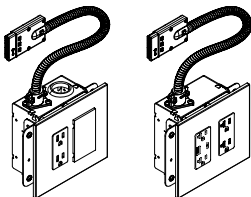
Power Data outlets consist of the following components.



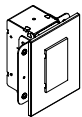
Power Data Horizontal Module -
Communication (EPDMCFJ)



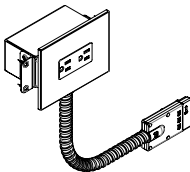
Power Data Vertical Module - Single
(EPDMSFJ)



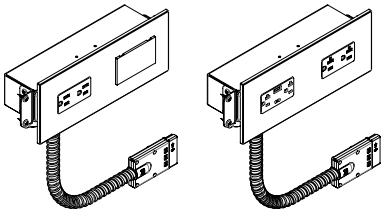
Power Data Vertical Module - Double
(EPDMDFJ)



Power Data Vertical Module -
Communication (EPDMCFJ)



Power Data Horizontal Module - Single
(EPDHSFJ)



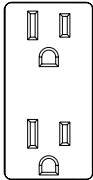
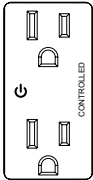
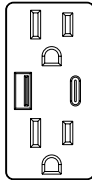
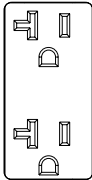
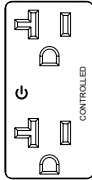
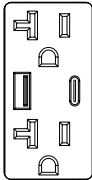

Power Data Horizontal Module - Double
(EPDHDFJ)

understanding power data outlets

Power data receptacles are available in 15 amp, 20 amp and with USB options. Please see chart for possible combinations.

- Control receptacles combined with Power Data circuits allows plug loads control for reducing energy consumption. Ref ANSI/ASHRAE/IES Standard 90.1, California Energy Commission (CEC) Title 24, Part 6.
- USB receptacles are only available in Circuit 1
- USB receptacles cannot be on a controlled circuit

Power Receptacles

Receptacle outlets	15 amp			20 amp			Data Openings
							
	Standard Outlet (S)	Controlled Outlet (D)	USB (A+C)* Outlet (U)	Standard Outlet (T)	Controlled Outlet (E)	USB (A+C)* Outlet (W)	Data Opening (O)

*USB (A+C)

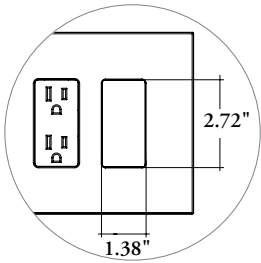
Cable compatibility: USB C
USB 2.0
USB 3.0

USB charger provides a total combined output of up to 25 Watts (5 Amps).

Maximum output on the USB-A port is 10 Watts (2 Amps).

Output voltage is fixed at 5 Volts DC.

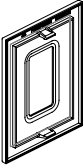
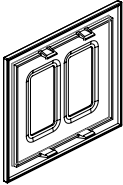
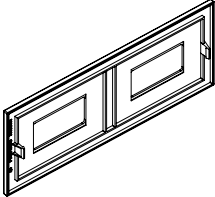
faceplate opening dimensions for data



Data opening accepts modular furniture faceplates (supplied by others)

understanding power data outlets (continued)

The following chart helps visualize the differences in sizing for Teknion’s Power Data electrical systems for WithIn.

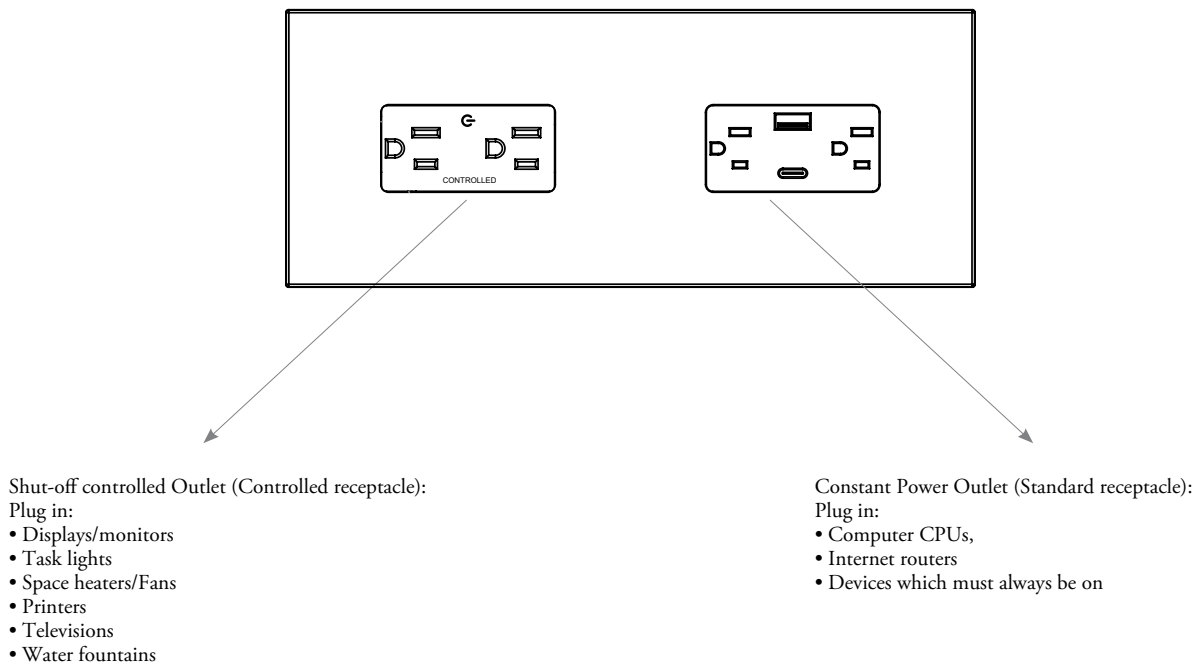
Description	Where Used	Overall Dimensions & Image
Single size faceplate for Horizontal and Vertical Power Data Module	EPDHCFJ EPDHSFJ EPDMCFJ EPDMSFJ	Width= 4.196 inches (107 mm) Height= 5.514 inches (140 mm) Thickness= 0.21 inches (5.40 mm) excluding snap tabs 
Double size faceplate for Vertical Power Data Modules	EPDMDFJ	Width= 6.262 inches (159 mm) Height= 5.514 inches (140 mm) Thickness= 0.21 inches (5.40 mm) excluding snap tabs 
Double size faceplate for Horizontal Power Data Modules	EPDHDFJ	Width= 10.449 inches (265 mm) Height= 4.208 inches (107 mm) Thickness= 0.21 inches (5.40 mm) excluding snap tabs 

understanding controlled receptacles

WithIn based solution for the controlling function that addresses the ASHRAE/Title 24 energy conservation requirements.

Power Data electrics offers standard and controlled power receptacles for Wall Infills. Controlled receptacles are any receptacles connected to an automatic shut-off controller.

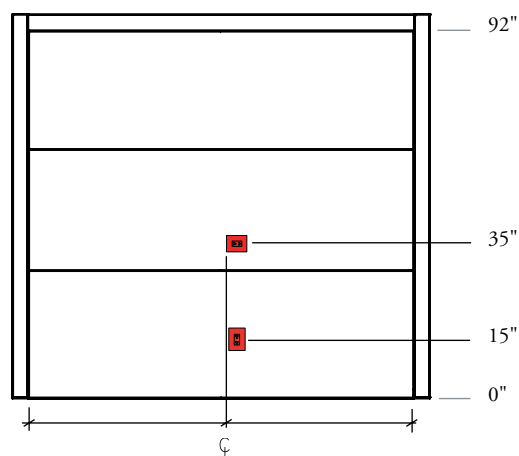
- Shut-off controllers turn electrical power on and off in those controlled receptacles to:
 - Save electrical consumption,
 - Reduce carbon footprint,
 - Comply with energy codes, and
 - To earn points for LEED rewards/certifications
- When devices such as monitors, televisions, or task lights, are left ON or plugged in when not in use, they still consume energy. Power controlled receptacles will automatically switch off to minimize wasted energy. Power can be switched off by means of an occupancy sensor, timer or other method as chosen by the site electrician or contractor. This allows for ASHRAE/Title 24 compliance
- Receptacles are typically controlled by circuit in a modular power distribution system. This means that all receptacles on the same circuit will be controlled together. For example, if circuit #2 is connected to a sensor placed in the ceiling, then all receptacles on circuit #2 powered from the same feed harness will switch on and off together. Even if they are in separate rooms. This is important to remember/understand when specifying or planning the electrical layout
- Controlled receptacles are simple to identify. They are marked with the universally recognized power symbol and the word “controlled”. This permanent marking allows users to differentiate them from standard receptacles and inform employees, guest users and others which receptacles have constant power availability and which receptacles may have power switched off at predetermined times or occupancy conditions
- Identifying which outlets automatically shut-off and which remain constantly powered is important, so the correct equipment and devices may be plugged into the appropriate outlet



planning with power/communication walls

Electrics and communications receptacles can be specified at two levels: 15" height and worksurface height 35" depending on type specified.

- Fascia cut outs are required for accessing power and communications
- Cut out locations vary depending on the application type:
 - All cut outs are located right of center-line on the front of the Fascia – this allows for electrics and communications to be specified on both inner and outer elevations of the same wall module
 - Above worksurface are always oriented horizontally
 - Fascia cut out locations are available in the following finishes: Solid and Fabric Wrapped
 - 4" base fascias cannot accept cut outs but wires can be routed through them in some applications



35" - Above worksurfaces Height

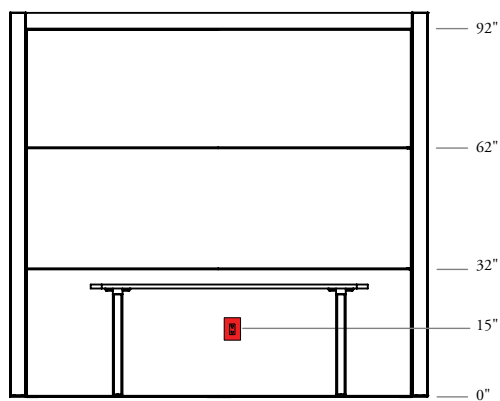
- Horizontal orientation only
- Power Data only

15" - Above Finish Floor Height

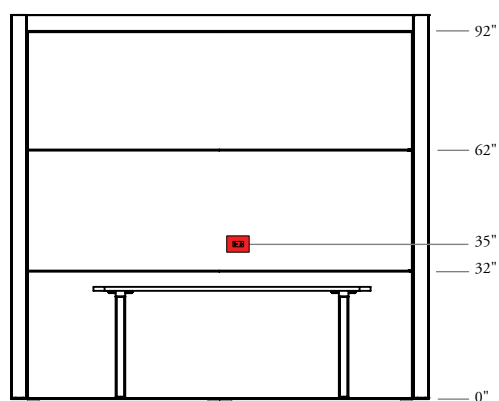
- Vertical orientation only
- Power Data only

planning with power/communication walls (continued)

Depending on the application of furniture one of the two elevations may be more suitable than the other.



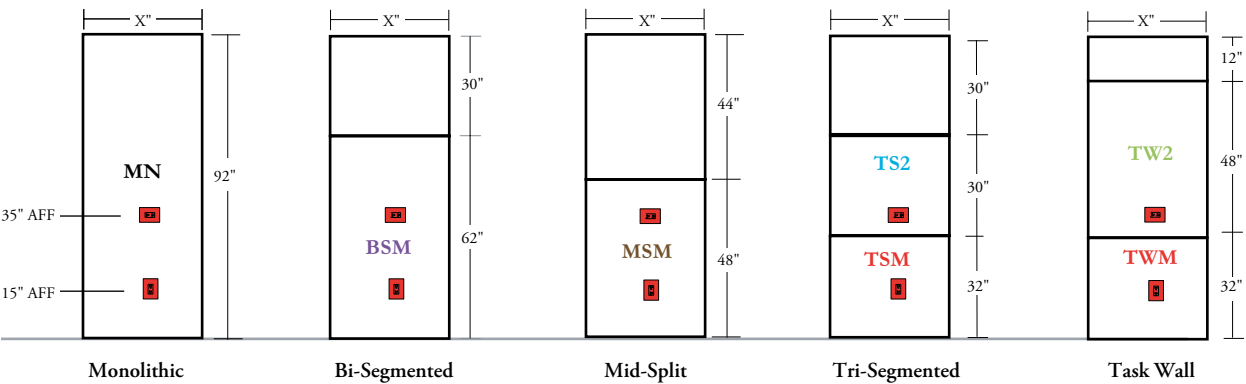
AFF 15" - Vertical Height



AFF 35" - Horizontal Height

planning with power/communication walls (continued)

Wall modules that require electrics or communications are specified by ordering Fascias that come complete with the available cutout options. Refer to the chart below to see the available cutout options for each fascia.



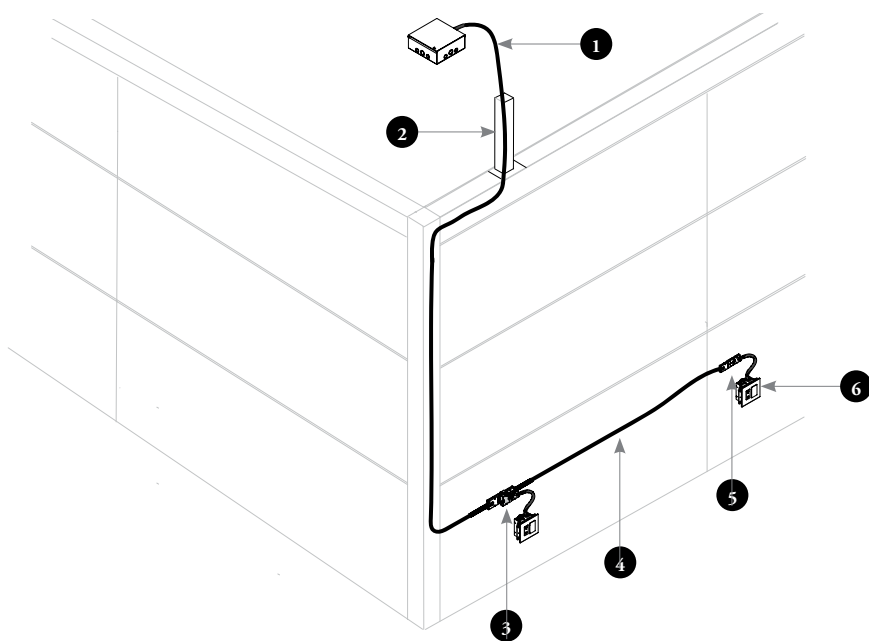
The chart below outlines the styles of openings available for Fascias that accept electrical cut outs. Each letter represents a different cut out style.

	Image Reference	Application Fascia	Cut Out Descriptions		Width Range Portrait	Width Range Landscape
No need for electrical access		All	IL	No Cut Outs	12" - 48"	12" - 120"
15" AFF Height		MN BSM MSM TEM TWM	SL	15" AFF Height Vertical Cut out for Single Module	13-1/2" - 48"	13-1/2" - 120"
			DL	15" AFF Height Vertical Cut out for Double Module	17-1/2" - 48"	17-1/2" - 120"
35" AFF Height		MN BSM MSM TS2 TW2	FJ	35" AFF Height Horizontal Cut out for Single Module	17" - 48"	17" - 120"
			GJ	35" AFF Height Horizontal Cut out for Double Module	27" - 48"	27" - 120"
Combined 35" AFF Height & 15" AFF Height		MN BSM MSM	LJ	Combination: 35" AFF (Worksurface Height) Horizontal Cut Out for Single Module and 15" AFF Height Vertical Cut Out for Double Module	17" - 48"	17" - 120"
			MJ	Combination: 35" AFF (Worksurface Height) Horizontal Cut Out for Double Module and 15" AFF Height Vertical Cut Out for Double Module	27" - 48"	27" - 120"

electrical distribution overview

Power data distribution electrics consist of the following components that allow WithIn spaces to include power.

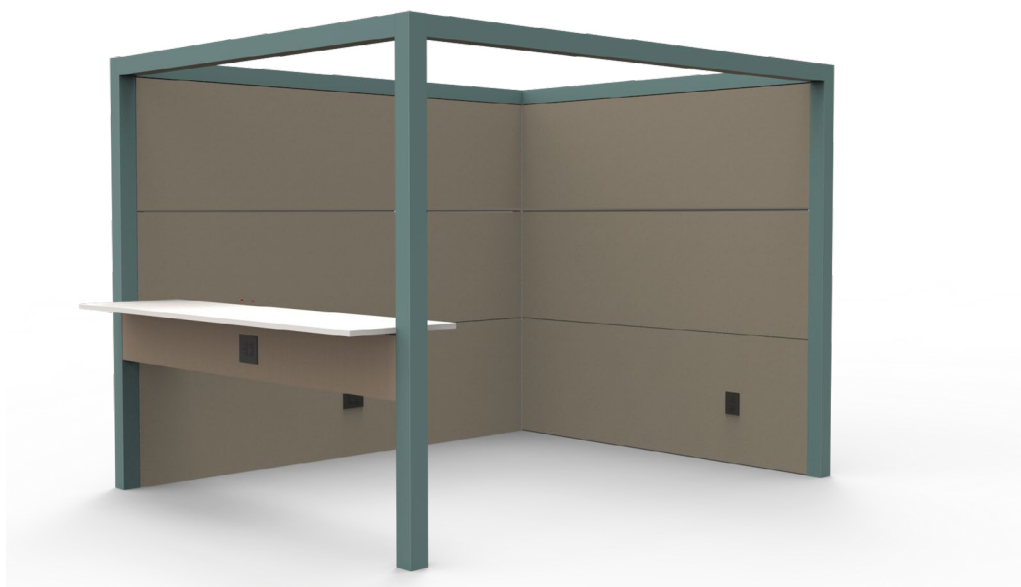
- Power data components can be connected in series (daisy chained) and are non-directional
- Back-to-back installation of electrics and communications is possible because electrical box mounting is offset on the fascia
- All components must be specified from same wire system - systems available: 4B, 5D, 7G, 8T and 8K
- Certain Fascias are available with cut outs to match each Power Data Module type. See Infills section for more detail
- Power Data Components can not be connected with hardwired components
- Electrical connections to the building power supply must be done on-site by a certified electrician
- Maximum number of Power Data Modules chained by one feed is limited by electrical loads. This will depend on number of receptacles per Power Module, what equipment will be plugged in to those receptacles, the number of circuits, and the local code's requirements. For convenience, limit to four rooms/offices. Please contact your electrical contractor for further assessment



- ❶ Power Data Starter Cable (EPDSCFJ)
- ❷ Power Pole (EPQFJ)
- ❸ Power Data Four-Way Splitter (EPDDBFJ)
- ❹ Power Data Connecting Harness (EPDCHFJ)
- ❺ Power Data In-line Connector (EPDICFJ)
- ❻ Power Data Vertical Module – Double (EPDMDFJ)

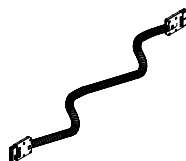
electrical distribution basics

Power Data distribution consist of the following components.



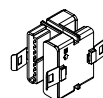
Power Data Starter Cable (EPDSCFJ)

- Feeds building power from ceiling down to the Power Data Modules in a panel, or from base floor up to the modules
- Always connects to a junction box (provided by electrician)
- Includes an In-line Connector
- Lengths: 18", 120", 240"



Power Data Connecting Harness (EPDCHFJ)

- Routes power between Power Data Modules and is non directional
- Also connects to Starter Cables for routing power
- Length: 48", 72", 96", 120" and 144"



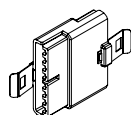
Power Data Four-Way Splitter (EPDDBFJ)

- Distributes power in two or three directions
- Routes power between modules, harnesses, and/or starter cables
- Includes two port covers



Power Pole (EPQFJ)

- Houses electrical connecting harnesses from ceiling
- Height: 42" or 56"
- Pole, ceiling sleeve and beam sleeve offer separate finish options

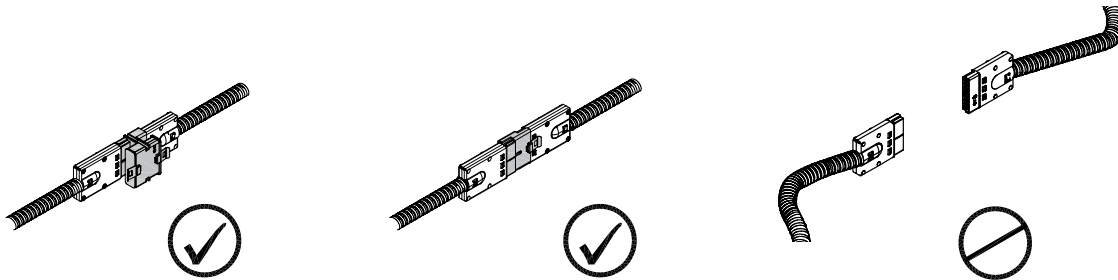


Power Data Inline Connector (EPDICFJ)

- Routes power between modules, harnesses, and/or starter cables

planning power data electrical distribution

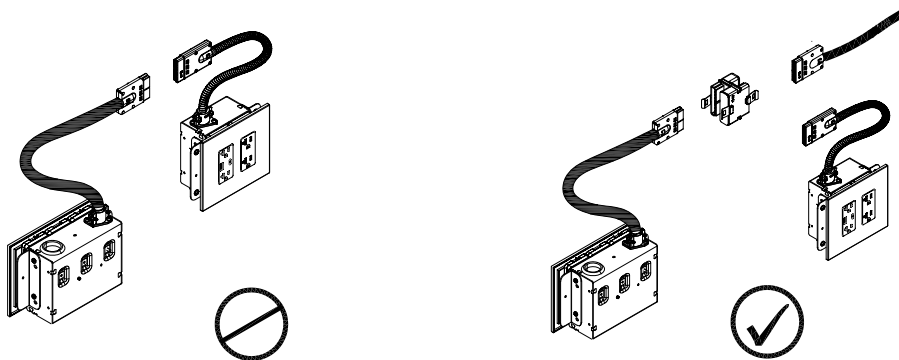
harness



An In-line Connector or a Four-Way Splitter should be specified to connect them.

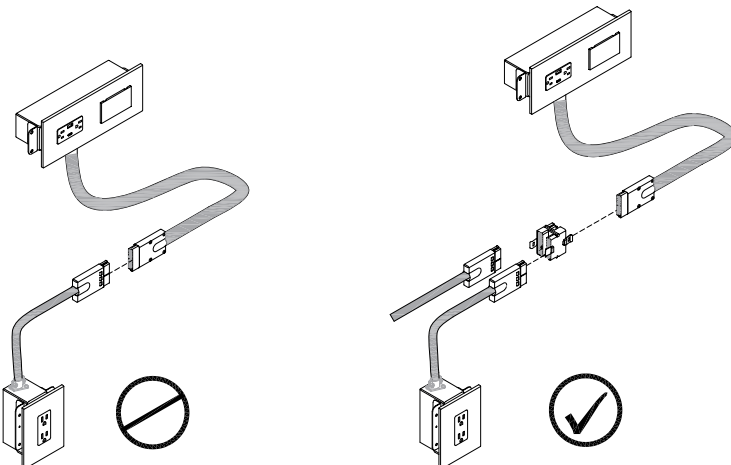
Harnesses cannot be linked together.

power data modules



Power data modules cannot be linked together.

A Four-Way Splitter should be specified to connect them.

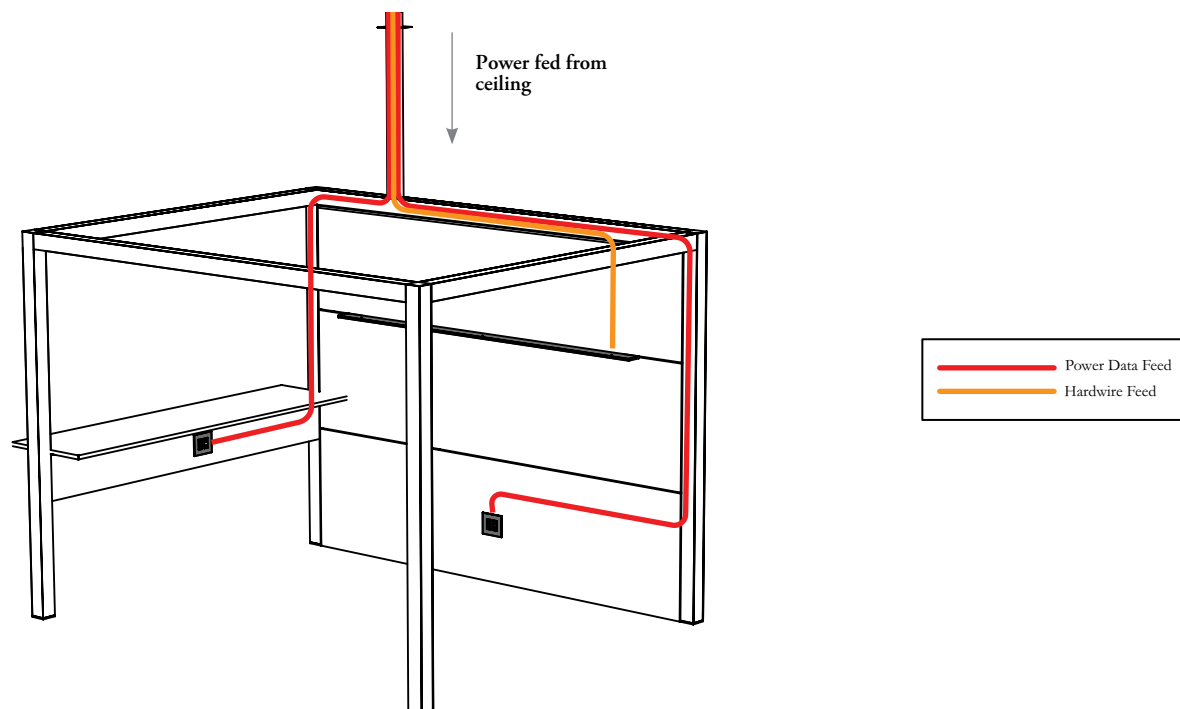


planning for electrical distribution feed

There are two types of feeds that can be used to supply power to a WithIn layout. Ceiling feeds fed from the base building through the power pole or base feeds feed up directly through the bottom of the wall.

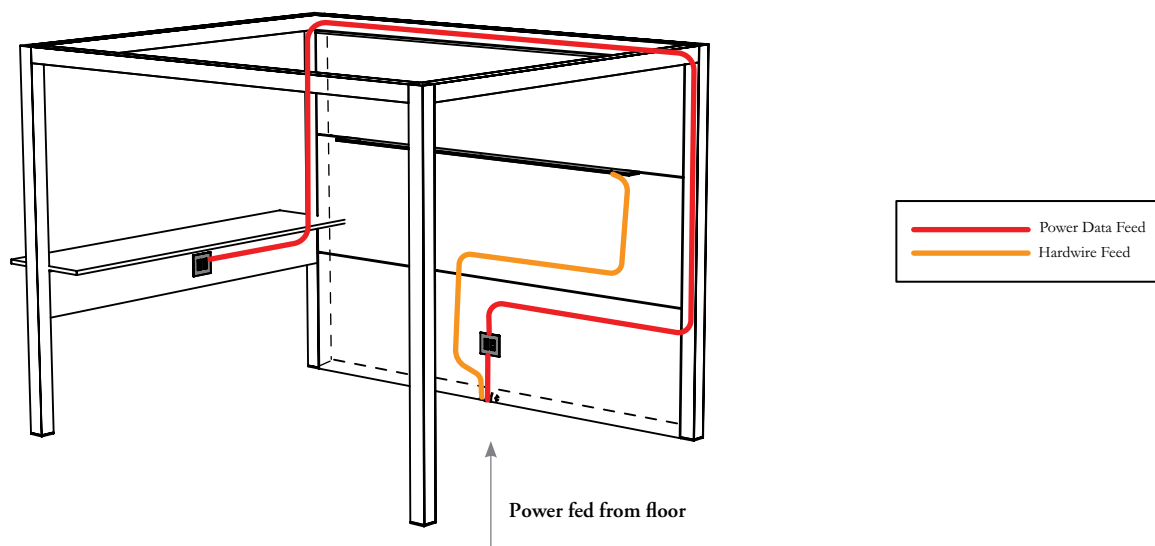
Ceiling Feed

Up to four cables can feed through the power pole to bring cables into the beam of the WithIn frame and distributed as needed.



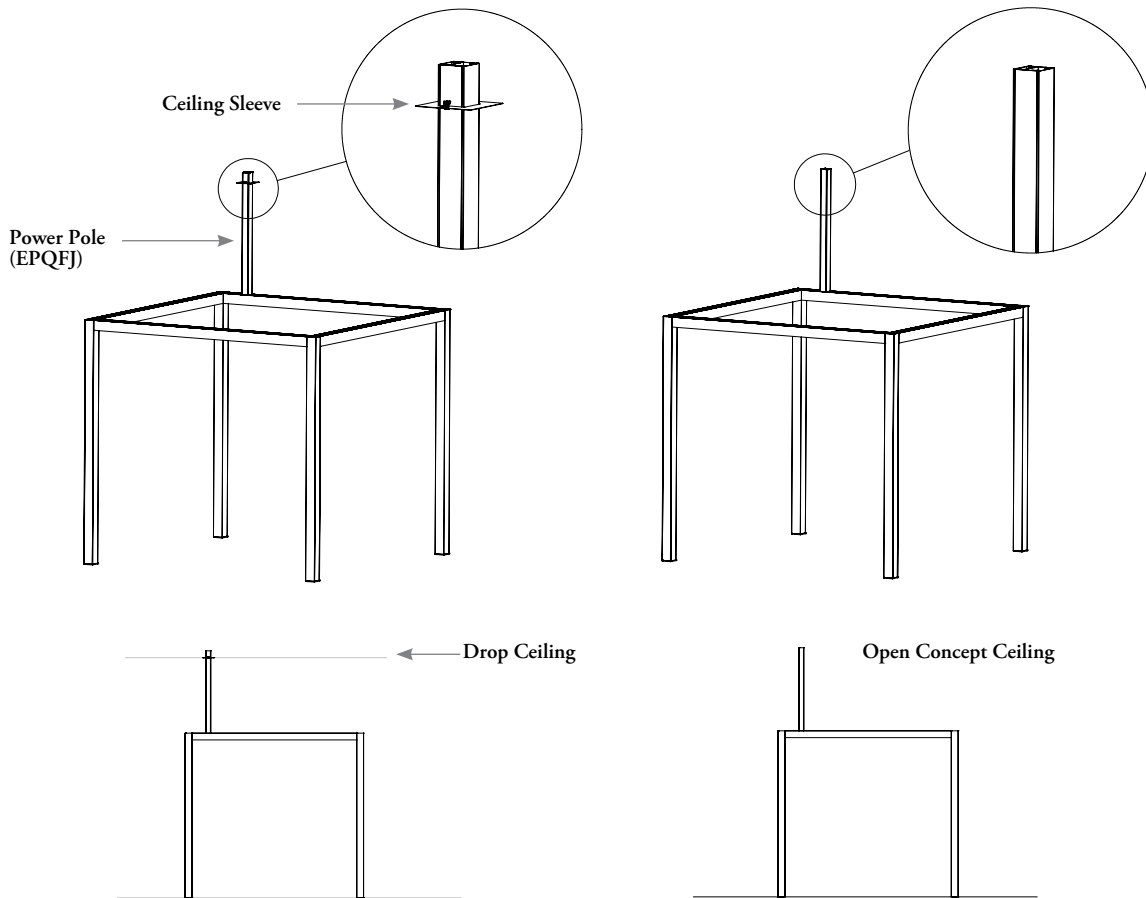
Base Feed

Cables can feed up into a wall through a floor core or floor junction box. The feed must align directly under the span of the 4" wall.

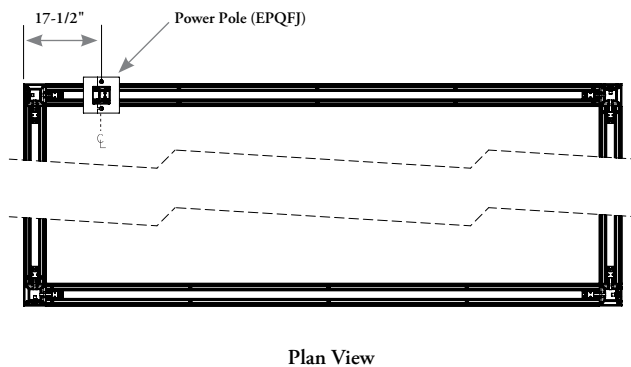


planning for electrical ceiling feed

The following describes the allowable options and locations for ceiling feeds.



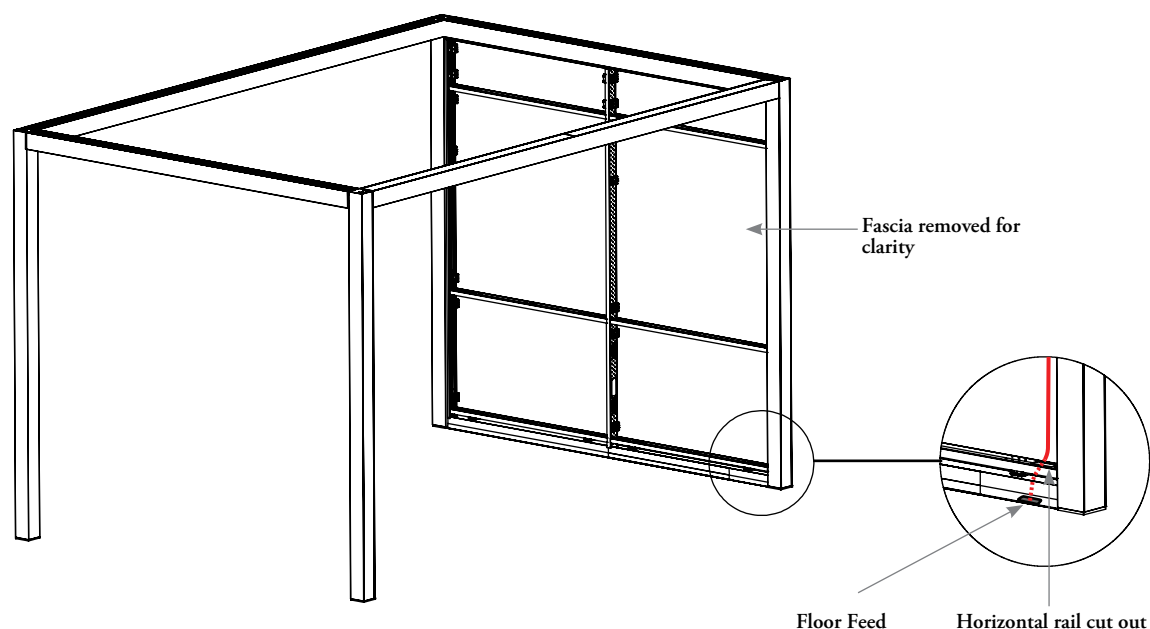
The Ceiling Power Pole (EPQFJ) can use with or without the ceiling sleeve. The ceiling sleeve is used when penetrating through drop ceiling or similar. The sleeve can be removed for feeds in open concept spaces.



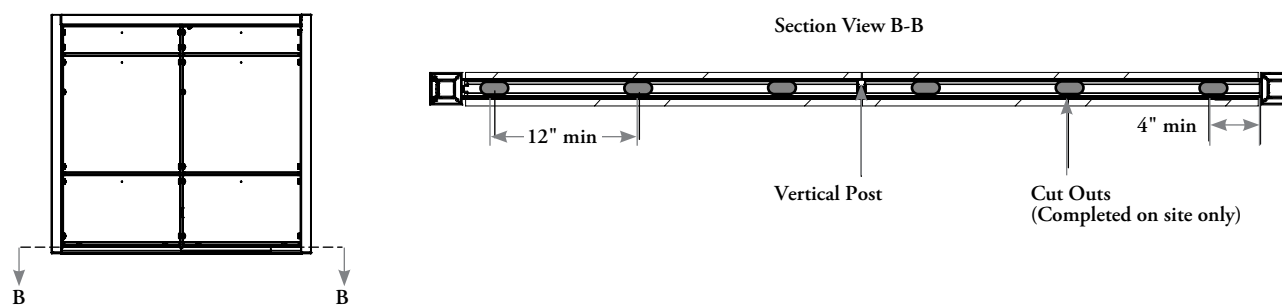
The Ceiling Feed Power Pole (EPQFJ) can be mounted a minimum distance of 17-1/2" to the centerline from any outside edge of a post.

planning for electrical base feed

The following describes the allowable options and locations for base feeds.



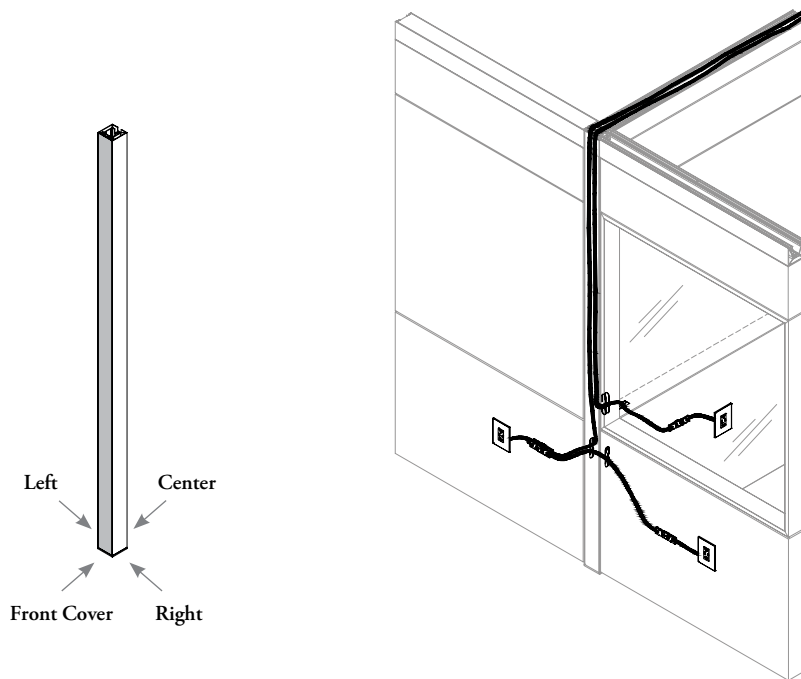
Electrical feeds can be fed from the floor in the middle of 4" walls, in between non-glass infills only.
Horizontal rails include pre cut holes on both ends so they can be bypassed with electrical cables.



If multiple feeds from the floor are to be used they should be spaced a minimum of 12".
Holes do not come pre cut into the base channel.
Electrical connections should be coordinated with an electrician prior to install.

planning for electrical post routing

The following describes the allowable options for electrical routing cutout options for posts.



Electrical Cut Out options:

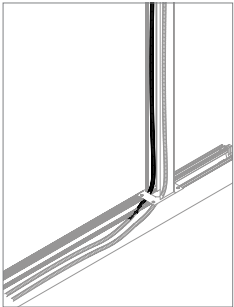
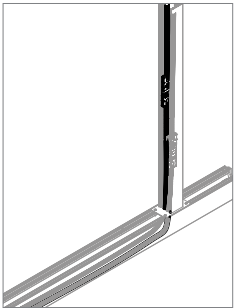
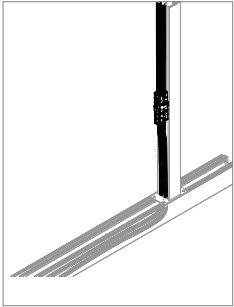
RIGHT	none, 25" or 35" cut out
CENTER	none, 25" or 35" cut out
LEFT	none, 25" or 35" cut out

- Worksurface by default includes the 35" electrical cut out based on the selection of Worksurface connection (right, center, or left)
- Only one additional electrical cut out option per side is allowed, the included worksurface cut out option does not count towards the one per side electrical cut out. For example, an additional electrical cutout at 25" and 35" (cutout for worksurface) can be on one side of a post (left/right or center) and only applies when a worksurface is present
- If no worksurface is present there is only the option to have a one cutout (left/right/ or centered)

Note the posts can only be used as pass through cavities for cables and no inline connectors (EPDICFJ) or Four-Way Splitters (EPDDBFJ) can be connected inside the post.

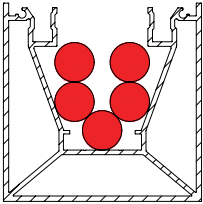
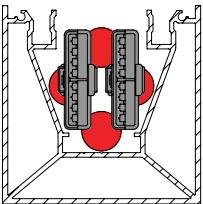
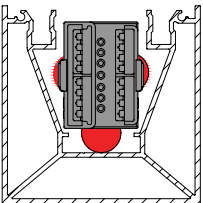
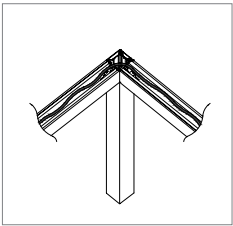
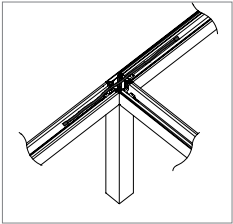
planning for electrical post & beam routing

The following outlines the options for electrical distribution through a ceiling post.

	Image Reference	Descriptions	Quantity Cables
✓		Power Pole - Cables	4 x Electrical Cables
✗		Power Pole - Cables and Inline Connectors	n/a
✗		Power Pole - Four-Way Splitter	n/a

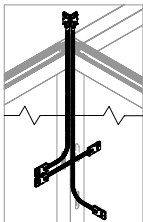
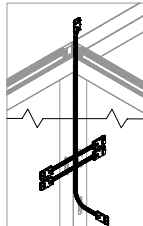
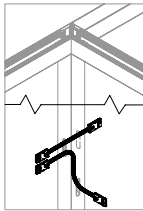
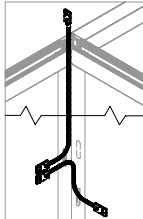
planning for electrical post & beam routing (continued)

The following outlines the options for electrical distribution through a beam.

	Image Reference	Descriptions	Quantity Cables
✓		Beam - Straight	5 x Electrical Cables
✓		Beam - Straight with two Inline Connectors (must be offset horizontally in beam by min 12")	4 x Electrical Cables 2 x Inline Connectors
✓		Beam - Straight with Four- Way Splitter option	3 x Electrical Cables 1 x Four-Way Splitter
✓		Beam to Beam - 90° turn	2 x Electrical Cables
✓		Beam to Beam - Inline	2 x Electrical Cables

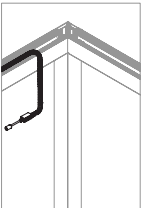
planning for electrical post & beam routing (continued)

The following outlines the options for electrical distribution through a post.

	Image Reference	Descriptions	Quantity Cables
✓		Two Beam to Post - 90° Exit - one 25" AFF and - one 35" AFF + One Post - Inline Pass Thru - one 25" AFF or - one 35" AFF	3 x Power Data Cables
✓		One Beam to Post - 90° Exit - one 25" or - one 35" + Two Post - Inline Pass Thru - two 25" or - two 35" (must be opposite of Beam to Post location)	3 x Power Data Cables
✓		One Post - 90° Jog Turn - one 25" AFF or - one 35" AFF + One Post - Inline Pass Thru - one 25" AFF or - one 35" AFF	2 x Power Data Cables
✗		One Beam to Post - 90° Exit - one 25" AFF or - one 35" AFF + One Post - 90° Jog Turn - one 25" AFF or - one 35" AFF	n/a

planning for electrical post & beam routing (continued)

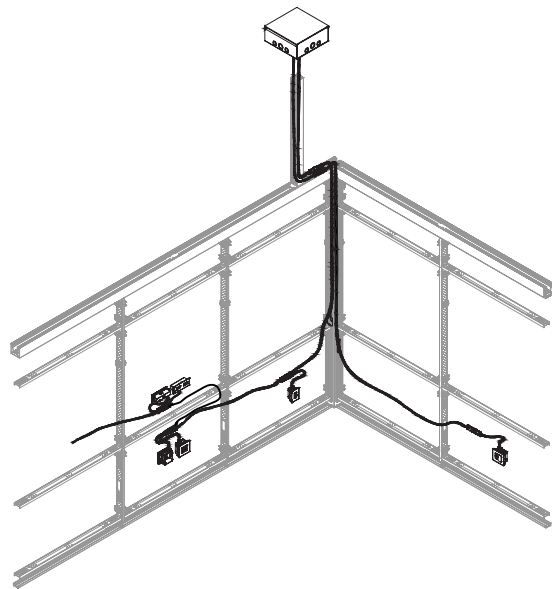
The following outlines the options for electrical distribution through a post for hardwiring.

	Image Reference	Descriptions	Quantity Cables
✓		Beam to Wall - 90° Exit	1 x Hardwire (set back 12" minimum from post + beam connection point)

planning for electrical feeds infill wire routing

The following outlines the options for electrical distribution through walls.

- Infill vertical posts have 3-1/2" high openings at 12" and 25" AFF
- Cut outs on the horizontals are located 3" from the vertical reveal line, to the center of the cut out

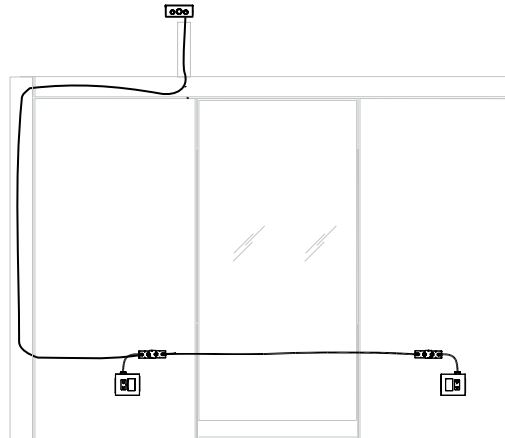
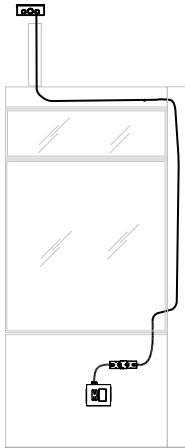


Power path		Number of maximum connectors per cut out	
		Portrait Power Data	Landscape Power Data
In-line through two vertical post		3	3
Through horizontal		2	2
Through horizontal at the base		2	2

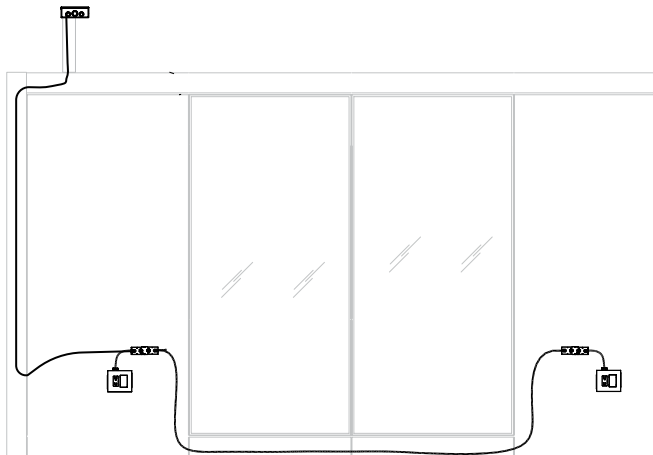
planning for electrical feeds infill wire routing (continued)

The following should be taken into consideration when planning power distribution around infills walls and glass.

planning with glass fascias



Power data components cannot be routed through fascia that are glass.



Power data components can be routed through a 4" base Fascia when glass is above.

determining harness length

The following outlines the harness length required for connecting Power Data modules.

It is important to include In-line Connectors and Four-Way Splitters to connect Power Data Modules.
All Power Data Modules have 18" long conduits.

Add the following applicable length then use the harness length matrix to order harness product(s):

- Infills:**
- 1) 1/2 the wall segment width on the starting Power Data Module
 - 2) 1/2 the wall segment width on the destination Power Data Module
 - 3) One full wall segment width on any pass-thru walls
 - 4) 4" when passing through post at the same elevations (35" AFF) or 14" when passing through post at different elevation (25" AFF to 35" AFF)

- Worksurfaces:**
- 1) 1/2 the workspace length for centered outlets or 9" for offset outlet
 - 2) 61" for through post
 - 3) 8" min to in-line splitter or 1/2 beam length to Four-Way Splitter

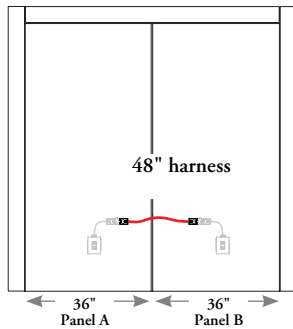
harness length matrix

Calculated Length	Product Combination to Order
0" to 47"	EPDCHFJ_048
48" to 71"	EPDCHFJ_072
72" to 95"	EPDCHFJ_096
96" to 119"	EPDCHFJ_120
120" to 143"	EPDCHFJ_144
144" to 167"	EPDCHFJ_120, EPDICFJ, EPDCHFJ_048
168" to 191"	EPDCHFJ_120, EPDICFJ, EPDCHFJ_072
192" to 215"	EPDCHFJ_120, EPDICFJ, EPDCHFJ_096
216" to 239"	EPDCHFJ_120, EPDICFJ, EPDCHFJ_120
240" to 263"	EPDCHFJ_120, EPDICFJ, EPDCHFJ_144
264" to 287"	EPDCHFJ_144, EPDICFJ, EPDCHFJ_144

determining harness length walls

The following examples will further explain these rules

Adjacent Panels with Power Data Modules at the same height

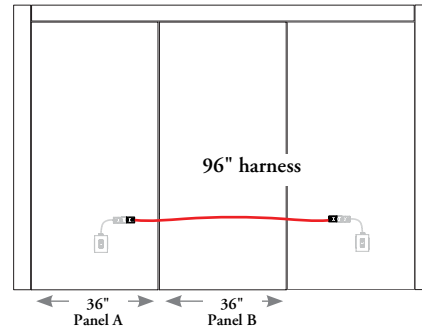


Example Harness calculation: $\frac{36''}{2} + \frac{36''}{2} = 36'' \rightarrow \text{EPDCHFJ_}_{048}$

A B calculated length product to order

__ is a placeholder in code for the chosen wire system.

Passing through more than one panel at the same height

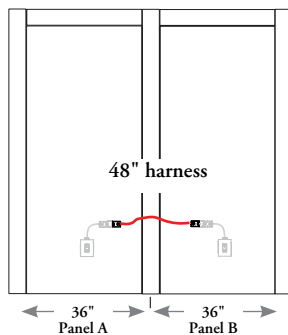


Example Harness calculation: $\frac{36''}{2} + 36'' + \frac{36''}{2} = 72'' \rightarrow \text{EPDCHFJ_}_{96}$

A B C calculated length product to order

__ is a placeholder in code for the chosen wire system.

Panels adjacent to a Post Data Modules at the same height

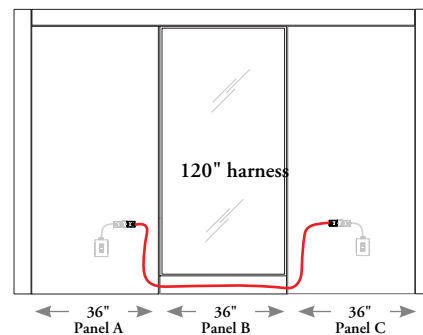


Example Harness calculation: $\frac{36''}{2} + 4'' + \frac{36''}{2} = 40'' \rightarrow \text{EPDCHFJ_}_{48}$

A B calculated length product to order

__ is a placeholder in code for the chosen wire system.

Passing through more than one panel when dropping and rising through the base



Example Harness calculation: $\frac{36''}{2} + 36'' + \frac{36''}{2} + 36'' = 72'' \rightarrow \text{EPDCHFJ_}_{120}$

A rise/drop B C calculated length product to order

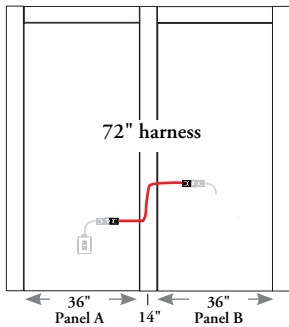
When passing through unpowered fascias with obstructions such as glass panels, a change is necessary to route power at base.

__ is a placeholder in code for the chosen wire system.

* Outlets at 15" AFF shown. Add 20" for each outlet at 35" AFF

determining harness length walls (continued)

Panels adjacent to a post with Power Data Modules at various heights



Example
Harness
calculation:

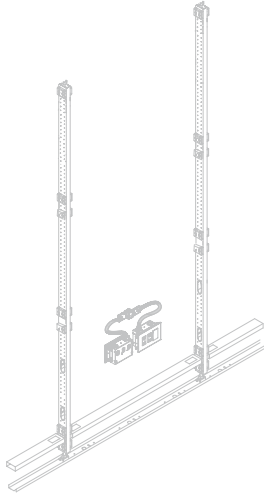
$$\underbrace{\frac{36''}{2}}_A + \underbrace{14''}_{\text{rise/drop through post}} + \underbrace{\frac{36''}{2}}_B = \underbrace{50''}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ}}_{\text{product to order}} _ _ 72$$

_ _ is a placeholder in code for the chosen wire system.

determining harness length infills

The following examples will further explain these rules

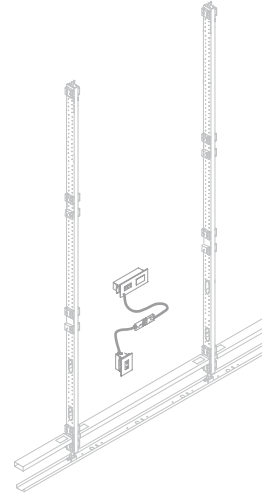
Back-to-back



Monolithic Wall example shown

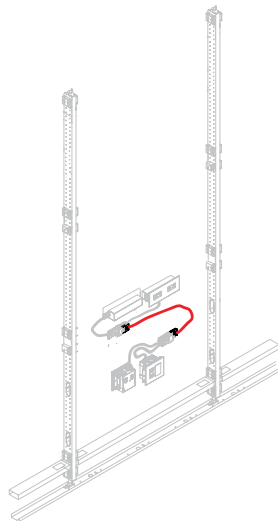
Back to back do not require harnesses to connect them together.

Connecting at 35" AFF with one at 15" AFF on the same fascia



Monolithic Wall example shown

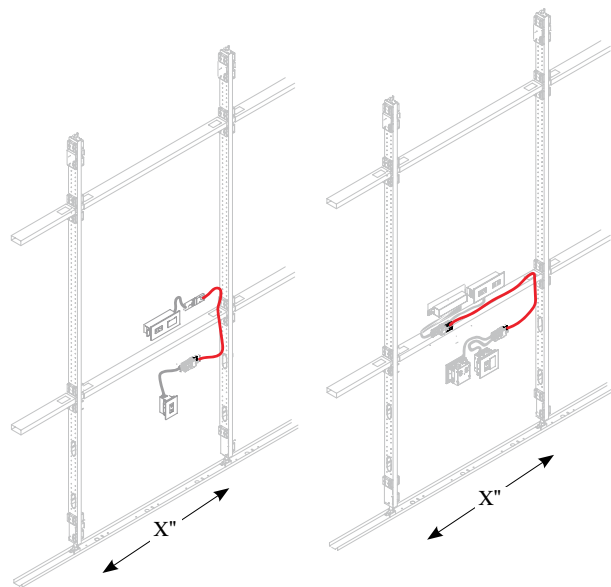
Connecting three or four in the same fascia



Monolithic Wall example shown

When connecting three or four in a single fascia, such as the case of back-to-back situation, a 48" harness and two four-way splitters are required.

Connecting in a tri-segmented or task wall



Task Wall example shown

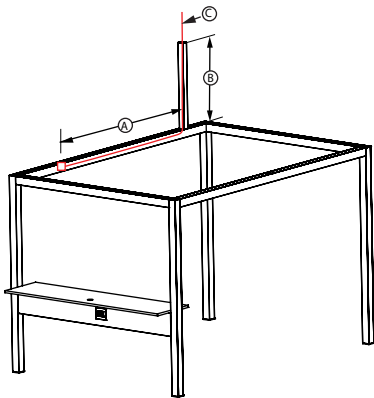
When connecting power data modules at 35" AFF with one at 15" AFF on another fascia in the same wall module, a harness equal to the length of the fascias (dimension x") is required along the 1 x four-way splitter and 1 x inline connector.

When connecting three or four modules in a single panel 2 x four-way splitters are required.

determining harness length post & beam

The following examples will further explain these rules.

Beam Inline Connector to Ceiling Feed - Example 1



Example Starter Cable calculation: $80'' + 42'' + 12'' = 140'' \rightarrow \text{EPDSCFJ_}_\text{240}$

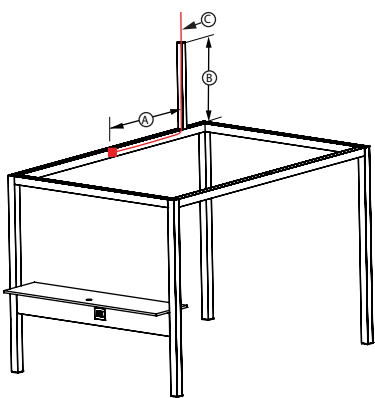
$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$
A	B	C	calculated	product
line	power	slack for	length	to order
connector	pole	hardwire		
to power	height			
pole				

Harness connector must be a minimum distance of 8" from corner post.

Depending on site condition more slack for hardwire may be required.

__ is a placeholder in code for the chosen wire system.

Beam Four-Way Splitter to Ceiling Feed - Example 1



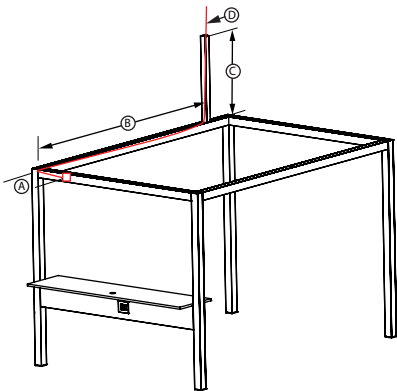
Example Starter Cable calculation: $\frac{96''}{2} + 42'' + 12'' = 102'' \rightarrow \text{EPDSCFJ_}_\text{120}$

$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$
A	B	C	calculated	product
beam	power	slack for	length	to order
length	pole	hardwire		
	height			

Depending on site condition more slack for hardwire may be required.

__ is a placeholder in code for the chosen wire system.

Beam Inline Connector to Ceiling Feed - Example 2



Example Starter Cable calculation: $8'' + 4'' + 88'' + 42'' + 12'' = 154'' \rightarrow \text{EPDCH FJ_}_\text{144}$

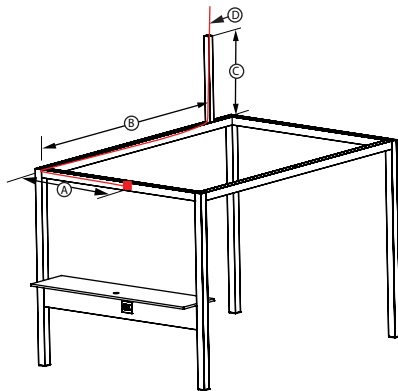
$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$
A	over	B	C	D	calculated	product
inline	post	beam	power	slack for	length	to order
connector		to post	pole	hardwire		
to post		length	height			

Harness connector must be a minimum distance of 8" from corner post.

Depending on site condition more slack for hardwire may be required.

__ is a placeholder in code for the chosen wire system.

Beam Four-Way Splitter to Ceiling Feed - Example 2



Example Starter Cable calculation: $\frac{96''}{2} + 4'' + 88'' + 42'' + 12'' = 194'' \rightarrow \text{EPDCH FJ_}_\text{240}$

$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$	$\underbrace{\hspace{1cm}}$
A	over	B	C	D	calculated	product
four-way	post	beam	power	slack for	length	to order
splitter to		to post	pole	hardwire		
post		length	height			

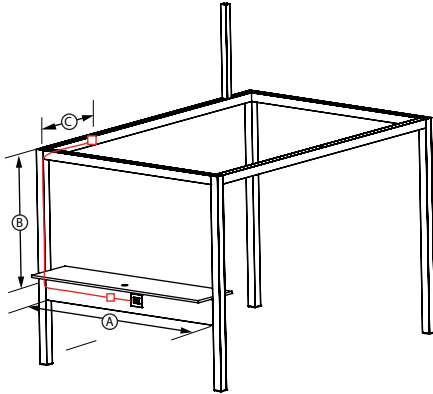
Depending on site condition more slack for hardwire may be required.

__ is a placeholder in code for the chosen wire system.

determining harness length worksurfaces

The following examples will further explain these rules

Centered Worksurface Outlet to Beam Inline Connector



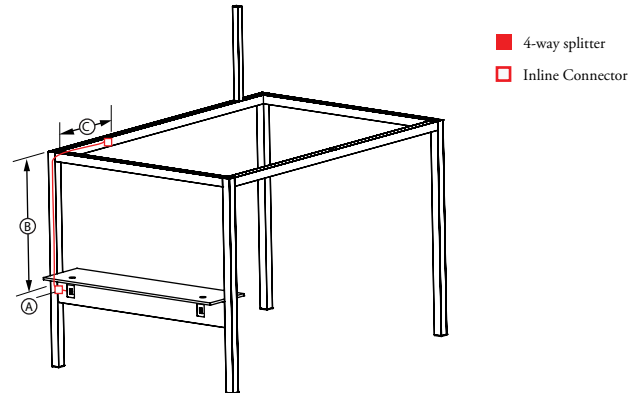
Example Harness calculation: $\frac{96''}{2} + 71'' + 8'' = 127'' \rightarrow \text{EPDCHFJ_}_144$

$\frac{96''}{2}$	$71''$	$8''$		
A	B	C	calculated	product
nominal		length in	length	to order
worksurface		beam		
width				

Harness connector must be a minimum distance of 8" from corner post (Dimension C).

_ _ is a placeholder in code for the chosen wire system.

Offset Worksurface Outlet to Beam Inline Connector



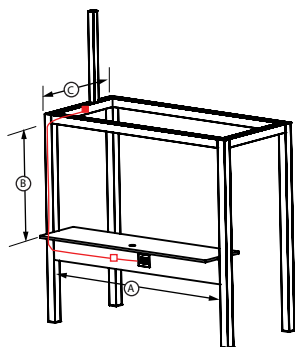
Example Harness calculation: $9'' + 71'' + 8'' = 88'' \rightarrow \text{EPDCHFJ_}_96$

$9''$	$71''$	$8''$		
A	B	C	calculated	product
		length in	length	to order
		beam		

Harness connector must be a minimum distance of 8" from corner post (Dimension C).

_ _ is a placeholder in code for the chosen wire system.

Centered Worksurface Outlet to Beam Four-Way Splitter



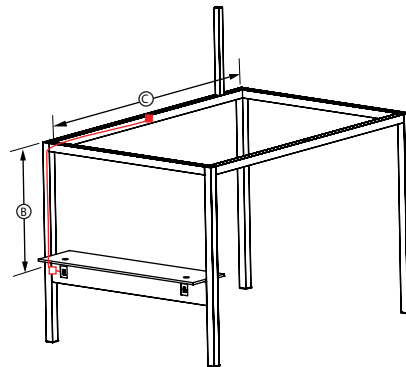
Example Harness calculation: $\frac{96''}{2} + 71'' + \frac{40''}{2} = 139'' \rightarrow \text{EPDCHFJ_}_144$

$\frac{96''}{2}$	$71''$	$\frac{40''}{2}$		
A	B	C	calculated	product
nominal		beam	length	to order
worksurface		length		
width				

Four-Way Splitter must be centered in Beam.

_ _ is a placeholder in code for the chosen wire system.

Offset Worksurface Outlet to Four-Way Splitter



Example Harness calculation: $9'' + 71'' + \frac{120''}{2} = 140'' \rightarrow \text{EPDCHFJ_}_144$

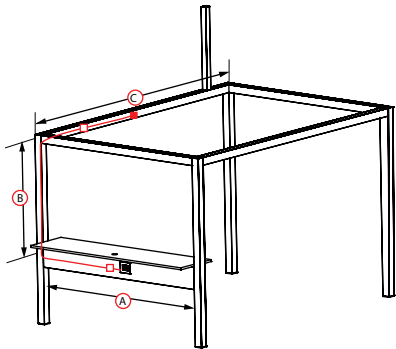
$9''$	$71''$	$\frac{120''}{2}$		
A	B	C	calculated	product
		beam	length	to order
		length		

Four-Way Splitter must be centered in Beam.

_ _ is a placeholder in code for the chosen wire system.

determining harness length worksurfaces (continued)

Centered Worksurface Outlet to Beam Inline Four-Way Splitter

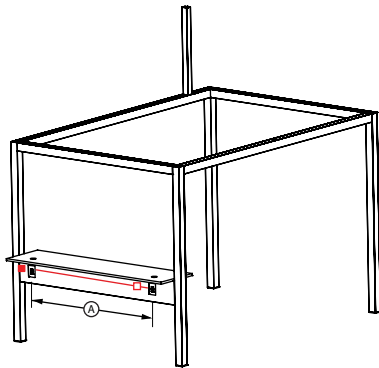


Example Harness calculation: $\frac{96"}{2} + 71" + \frac{144"}{2} = 191" \rightarrow \text{EPDCHFJ_}_\text{144}$
 $\text{EPDCHFJ_}_\text{048}$

A B C calculated length product to order
nominal worksurface width beam length

Harness connector must be a minimum distance of 8" from corner post (Dimension C).
Four-Way Splitter must be centered in beam.
__ is a placeholder in code for the chosen wire system.

Offset Worksurface Outlet to Offset Worksurface Outlet

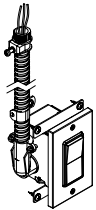
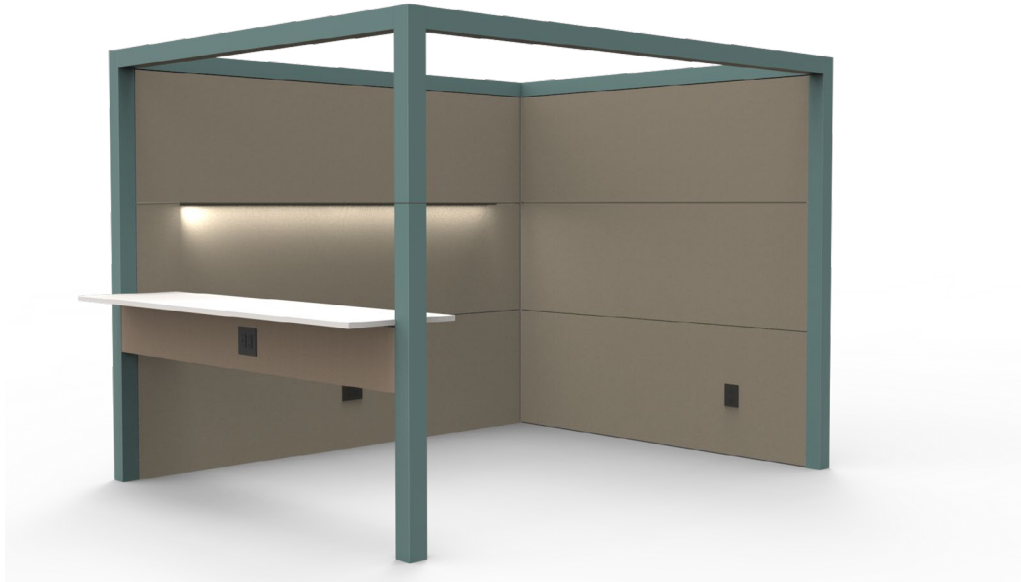


Example Harness calculation: $96" - 12" = 84" \rightarrow \text{EPDCHFJ_}_\text{96}$

A B calculated length product to order
nominal worksurface width

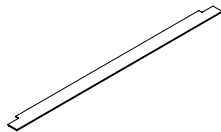
Four-Way Splitter must be centered in Beam.
__ is a placeholder in code for the chosen wire system.

Lighting consist of the following components.



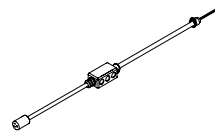
Light Switch (ELSfJ)

- Allows for user control of individual office ambient light
- Can be installed on solid fascias
- Color: Black or White
- Amps: 15 or 20
- Supplied with 20' cable



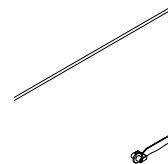
Wall-Mounted Light (ELWMLFJ)

- Can be mounted to either 62" or 80" horizontal datum using a Functional Rail
- Available 4" deep x 36" - 96" long in 1/8" nominal increments
- Select finishes available include:
 - Paint: Foundation, Mica, Accent
 - Clear Anodized



Light Power Feed (ELPFFJ)

- Harness can only be used to power one Task Light
- Available in 120", 180" and 240" lengths



Landscape Light Wire Management (ELWMGFJ)

- Used to retain a low voltage wire from the task light power feed
- Available in 36", 96" and 156" lengths

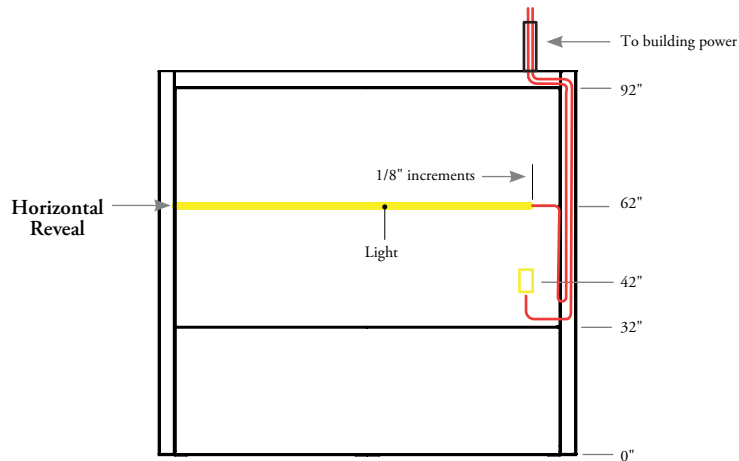
planning with wall-mounted lights

The following should be considered when planning with Landscape Wall-Mounted Lights.

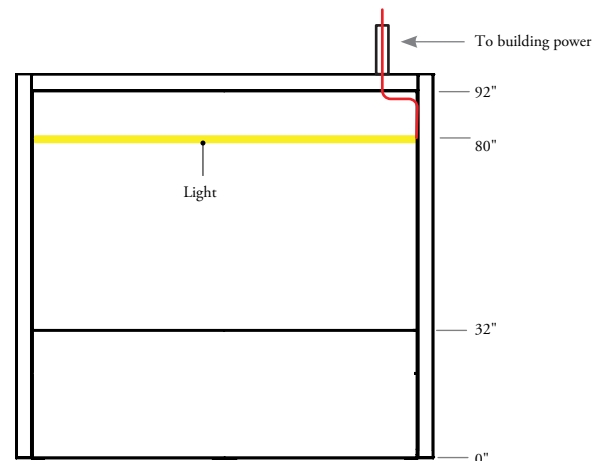
The Wall-Mounted Light is available on either the 62" or 80" datums.

placement horizontally on a wall

- Task Light can be installed on the Functional Rail in increments in 1/8" increments along the horizontal reveal at 62" or 80" AFF
- The light's nominal width must be equal to or less than the nominal width of the fascia.



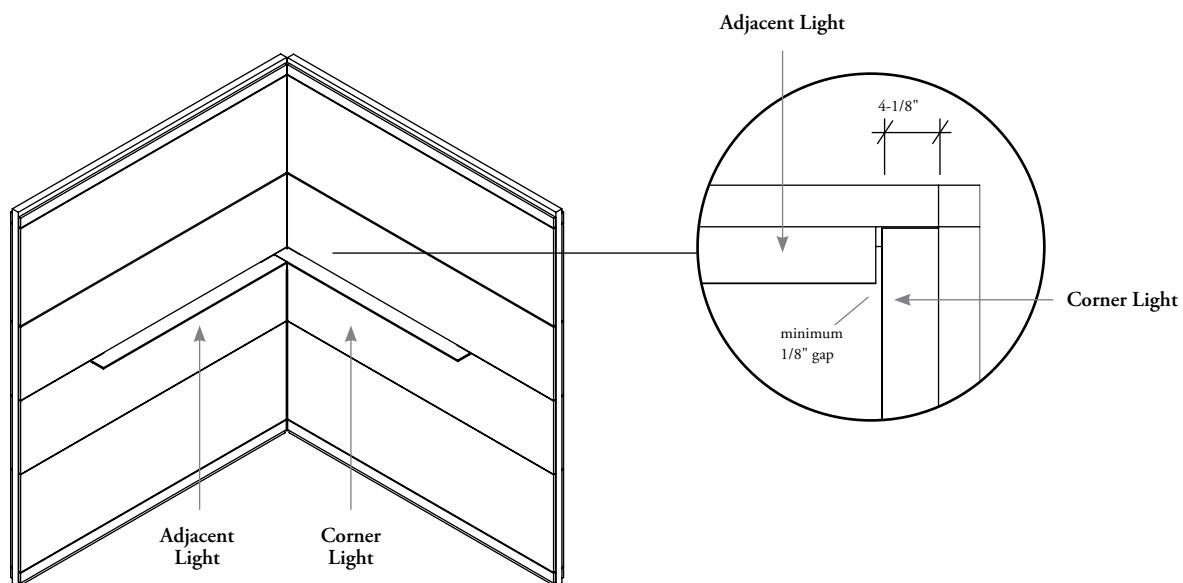
Wire shown passing through post at 35" AFF (specified in post FJSPK)



Wire shown passing through beam (drilled on site)

placement in a corner

- When planning two lights in a corner wall module the adjacent Light must be specified to be a minimum of 4-1/8" from the edge of the wall module to accommodate the lights depth as well as a 1/8" gap



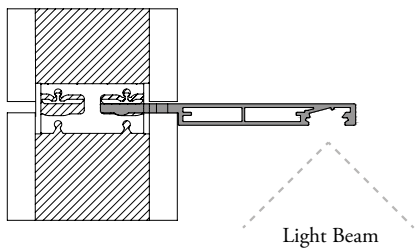
planning with wall-mounted lights (continued)

The following should be considered when planning with Landscape Wall-Mounted Lights.

The Infill Mounted Light can be mounted in two different applications; task and ambient.

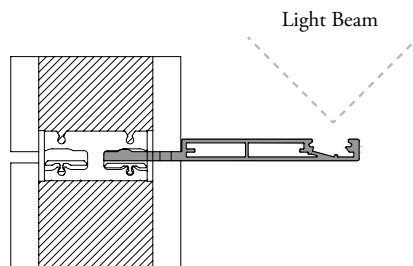
Task Light

- Aims downward, casting direct light onto a workspace, markerboard or other fascia below



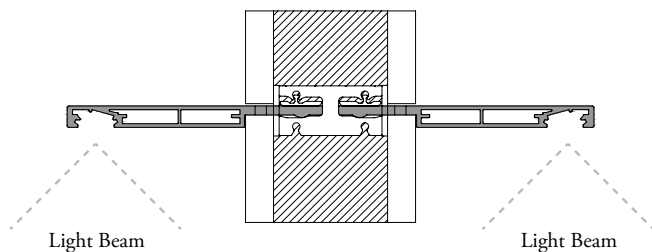
Ambient Light

- Aims upward, reflecting ambient light off a ceiling and upper fascia
- Functional Rail is mounted upside down for the ambient application

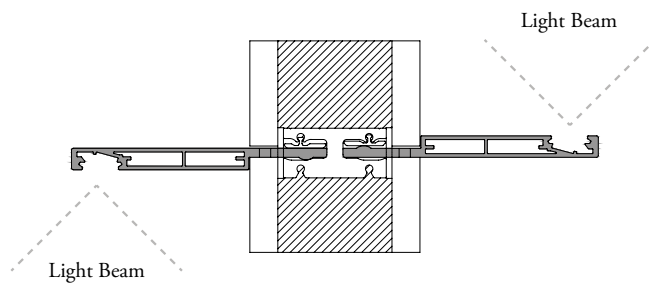


When Infill Mounted Lights are planned back-to-back they must be specified as the same application on both sides of the wall.

Task and Task



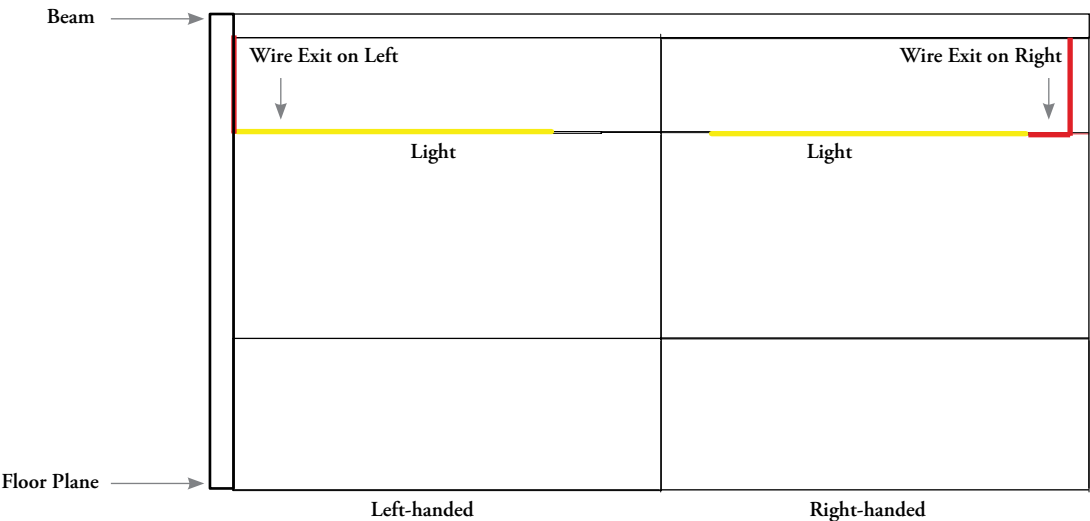
Task and Ambient



planning with wall-mounted lights (continued)

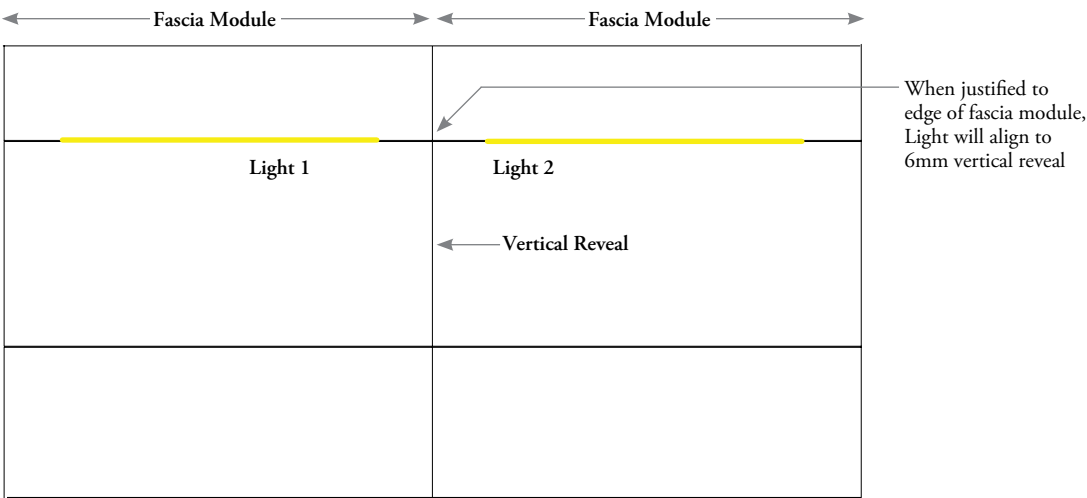
The following should be considered when planning with Landscape Wall-Mounted Lights.

- Handedness for both task and ambient applications is determined by the location of the wire exit when the user is facing the wall
- When specifying a Light with a Touch Sensitive Switch, the switch will be located on the same side of the light as the wire exit
- When planning a for a Light it should be noted that the cables run along the horizontal and vertical fascia reveals before entering the wall before entering the floor plane or beam
- Cables in the reveal can be managed with Light Wire Management (ELWMGFJ)



Left-handed Lights have wire exits on the left when facing the wall.

Right-handed Lights have wire exits on the right when facing the wall.



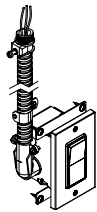
- A Wall-Mounted Light can only be planned with one light per fascia module. If two fascia modules are side-by-side a light can be specified on each module but they cannot share the same vertical reveal for wire management
- Lights cannot span across a vertical reveal

application guide

planning with light switches

A light switch is available for WithIn to allow user control of ambient lighting

- Light switches (ELSFJ) allow for light control on fascias and are always hardwired and independent of which electrical system is chosen
- Light switches are field installed on solid or fabric wrapped fascias and are cut on site
- Light switches are supplied with 20'-0" cable and must be connected to building supply by a qualified electrician
- Black and White options available
- Each Wall Mounted Light (ELWMLFJ) must be supplied with 1x Light Power Feed (ELPFFJ) per light
- Alternatively the Wall Mounted Light can be controlled by a touch switch on the right or left side of the light



Light Switch (ELSFJ)

- Allows for user control of individual office ambient light
- Can be installed on solid fascias
- Is recommended to locate the cut out 42" above finished floor to the center-line of the light switch

Light Power Feed
(ELPFFJ)

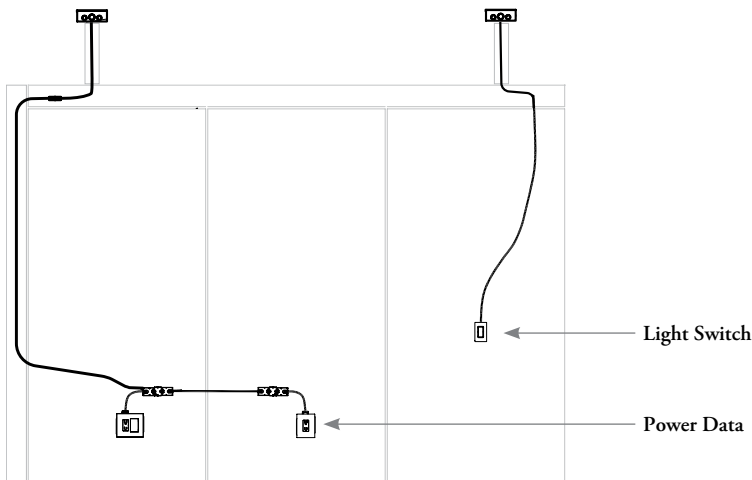
Wall Mounted
Light (ELWMLFJ)

Light Switch
(ELSFJ)
(20' cable included)

42"

Aluminum Fascia Kit (FJFPAK)

- Aluminum Fascia Kit provides an alternate location to place light switches and can accommodate up to four conduit feeds (3/4" diameter). Fascia is a nominal 6" wide only
- The following cutout locations are available
 - Solid - No cut out
 - 42" Vertical Height Cutout (for Light Switch ELSFJ)
- Select Solid to include no cut outs. Choose this option if an alternate cut out location other than 42" is to be cut on site



Power data modules cannot be linked together with light switches. Light switches are pre-wired with a 20'-0" cable and must be connected to building supply by a qualified electrician.

specifying within electrics & communications

The following steps should be followed when specifying electrics.

- The inside and outside elevations of one wall module or worksurface can both be installed with Receptacle and/or Communications Modules
- Back-to-back installation of electrics and communications is possible due to offset mounting on Fascias

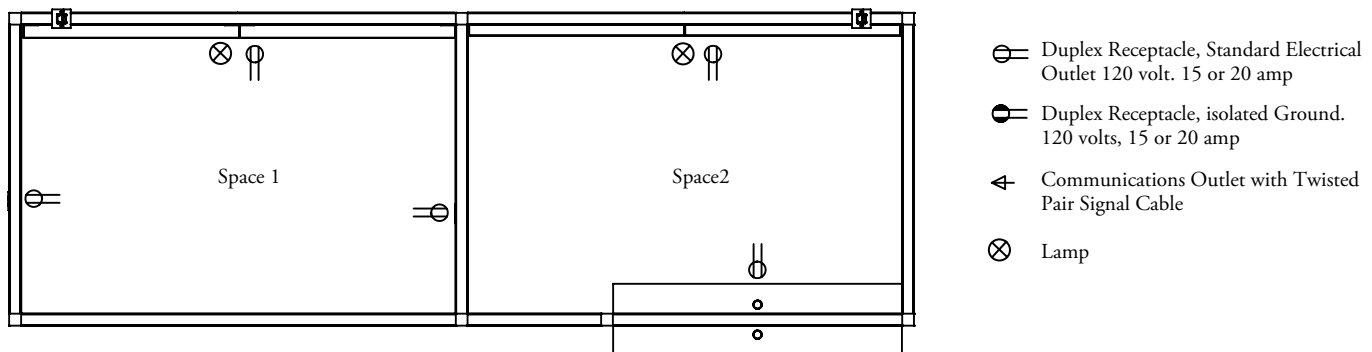
specifying method

step 1:

Determine Fascia configuration and level of cut out.

When power and/or communications is required, WithIn Fascias must be specified with corresponding cut outs. Non-powered Fascias can be retrofitted with electrics and communications by ordering a single new Fascia with appropriate cut out(s) and required electrical components.

- All cut outs are located right of center-line on the front of the Fascia so electrics and communications can be specified on both inner and outer elevations of the same wall module
- At worksurface height 35", cut outs are always oriented horizontally. At 15" height, cut outs are always oriented vertically
- Worksurface outlets are also offset to accommodate back to back applications



step 2:

Order appropriate Power and Communications electrical modules. The total number should match the total number of cut outs specified on Fascias.

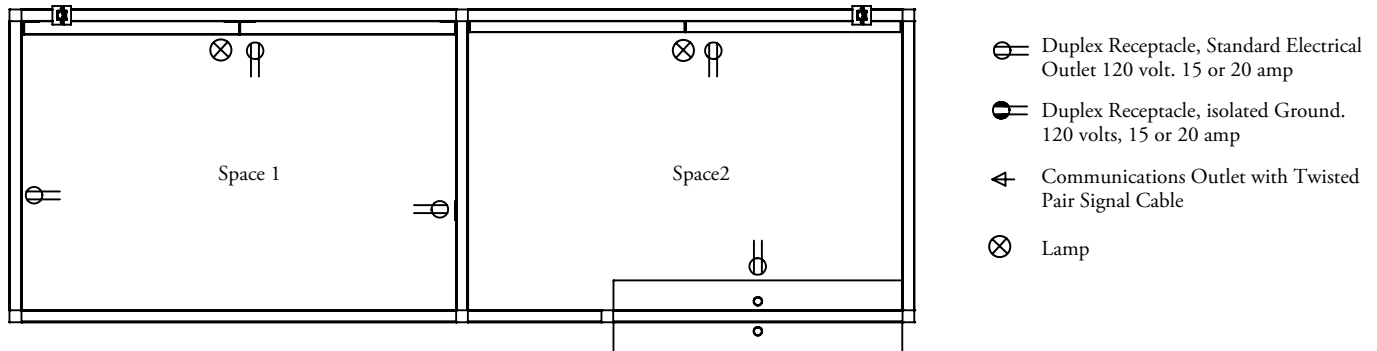
determining electrics & communications requirements

The following steps should be followed when determining electrical requirements.

- The distribution of power is the responsibility of the electrical contractor
- The number of power outlets and voice/data jacks per workspace should be determined by end-user requirements and approved by the electrical contractor
- Voice/data jack/faceplates are supplied by the cable contractor
- Check amperage of specific equipment that will be used. Amperage used below are for sample purposes only.

step 1:

List all office equipment and lighting requirements for each work space with appropriate amperage loads. Calculate total amperage required for each work space. Within receptacles are standard 120 volt, 15 or 20 amps. 220 volt equipment should be assigned to an alternative electrical distribution system.



step 2:

Determine the number and location of Receptacle and Communications Modules or Power Boxes needed in each workspace. Some equipment (e.g. computers) may require an isolated circuit and this should be specified at this stage.

step 3:

Balance the electrical load by assigning equipment to specific circuits. It is necessary to know the building's circuit capacity to do this. Also check local code requirements so that the maximum number of receptacles per circuit is not exceeded.

Space Number	Requirement	Amps	Module Required	Type of Circuit	Circuit
1	Computer Lamp Convenience Outlet Total Amp #1	4.00 1.00 4.00 9 amps	Duplex Receptacle Duplex Receptacle Duplex Receptacle	Standard, 120 V, 15 amp Standard, 120 V, 15 amp Standard, 120 V, 15 amp	Power Data Hardwire Power Data
2	Convenience Outlet Lamp Total Amp #2	4.00 1.00 5 amps	Duplex Receptacle Duplex Receptacle	Isolated Ground or Standard, 120 V, 15 amp Standard, 120 V, 15 amp	Power Data Hardwire
	Total Amperage	14 amps			

step 4:

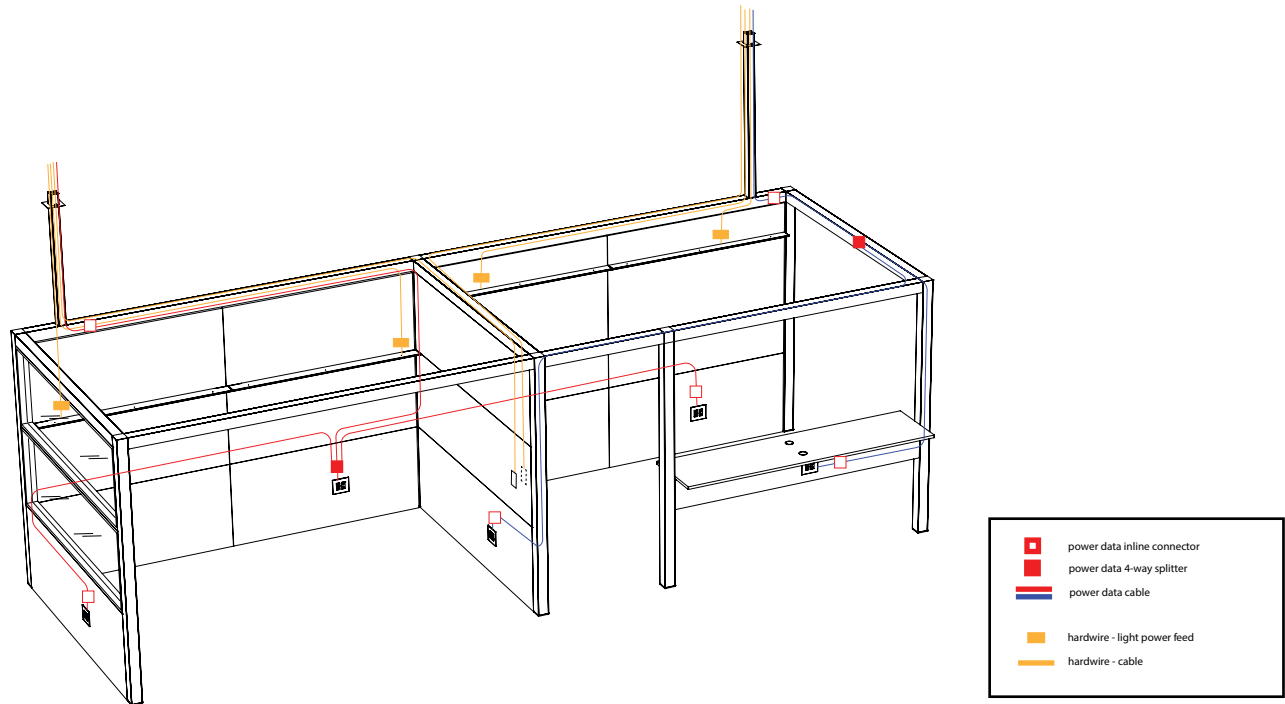
Determine the number of voice and data jacks required for each workspace. Communication jacks, faceplates and cables are supplied by the cabling contractor.

step 5:

Translate electrics and communications requirements into appropriate WithIn product.

electrical typicals

typical 01



technical

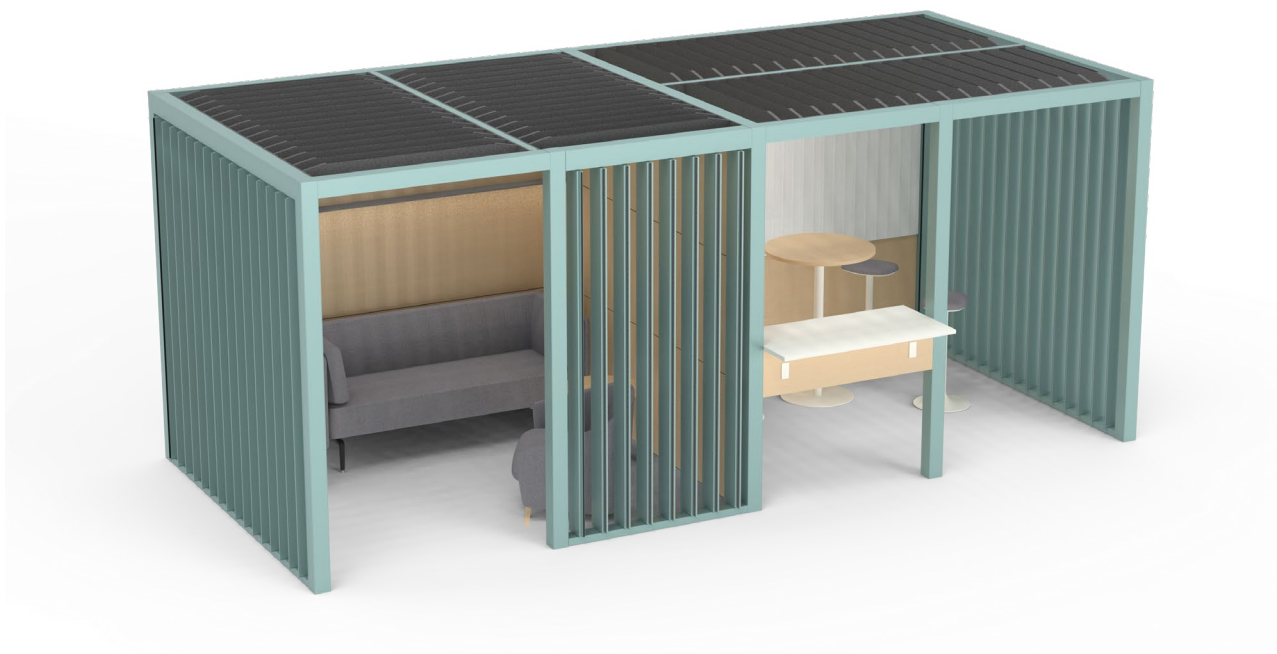
technical

PLANNING FOR FRAME ANCHORING &
BAFFLE COVERAGE LIMITATION. 165

PLANNING FOR FRAME ANCHORING IN SEISMIC ZONES 168

planning for frame anchoring & baffle coverage limitation

The following describes the baffle limitation with various frame anchoring types in varied seismic areas.



This section presents the baffle coverage percentage with five types of frame seismic anchorage installation as per 2021 IBC (International Building Code), 2022 CBC (California Building Code) and 2020 NBCC (National Building Code Canada); The baffle coverage limitation and anchorage requirements of the WithIn product are dependent upon the seismic region where the product is installed, position of the product in the building (Ground floor or upper floors), and also in some situations where “Max 50% wall panels” is indicated – that means no more than 50% of the frame in each orthogonal direction can be filled with solid fascia (or glass fascia, fabric wrapped fascia; sliding screens panels are not considered here).

The minimum WithIn configuration is one section (four structural posts and four structural beams) that can be expanded by adding beams and posts to create multi-section configurations; Installation of WithIn is on concrete or metal deck floors, suspended concrete slabs, slabs on grade and wood floors.

INFILL PANEL AND CEILING BAFFLE LIMITATIONS

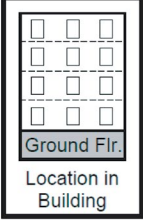

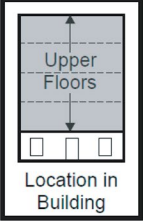

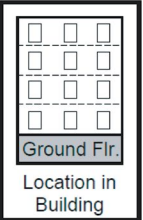
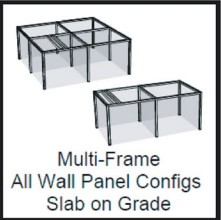
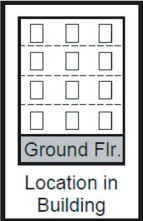
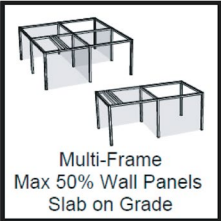
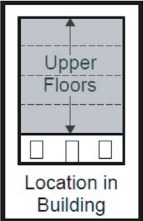
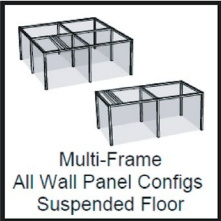
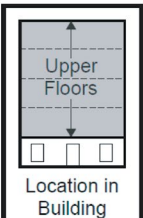
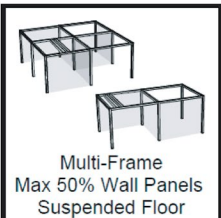
At high seismic regions, limitations are imposed on the total amount of solid wall panels and ceiling baffles installed with the WithIn product to ensure the post base details and anchorage designs are adequate. Refer to the seismicity maps and tables shown below on anchor type details A to E for the limitations noted below.

- The term “All Wall Panel Configs”: All sides of the frame assembly can be infilled with any Teknion wall infill product: Solid Wall Panel, Sliding Natural Wool Felt Screen, Glazing Panel or Wall Louvers
- The term titled “Max 50% Wall Panels”: No more than 50% of the frame bays in each orthogonal direction can be filled with solid wall panels (i.e., solid framed fabric panel, glazing panel or wall louvers). Sliding Natural Wool Felt panels are not considered as solid walls and may be provided at any location
- Dependent on the Seismic region, refer to the baffle coverage percentage shown in the table below. Note (i.e., MAX 50% CEILING BAFFLE COVERAGE means only 50% of the ceiling grid can be infilled with ceiling baffles), (0% and Out of Scope baffle coverage means baffles are NOT ALLOWED in that seismic region)

****For more information on seismic requirements, please refer to the WithIn Seismic Report and contact your local jurisdiction.**

planning for frame anchoring & baffle coverage limitation (continued)

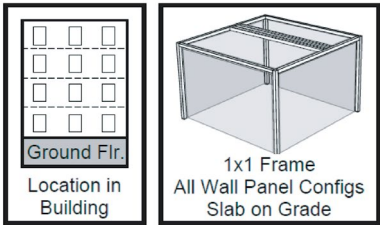
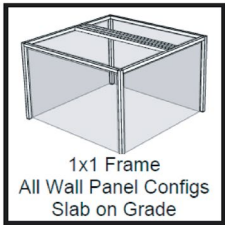
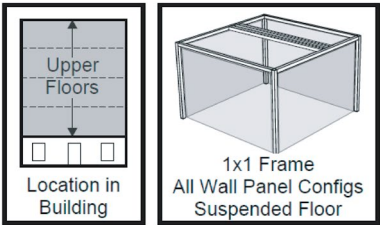

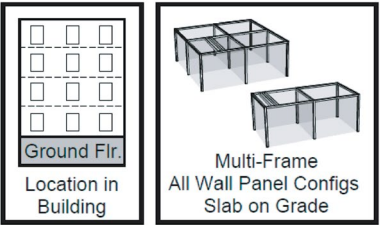
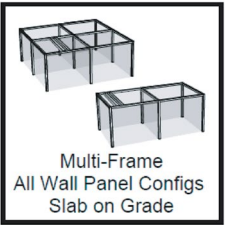
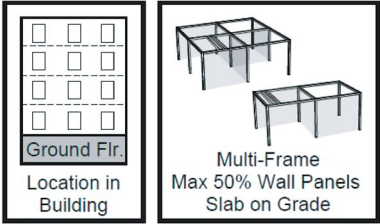
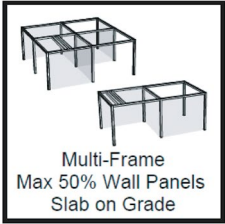
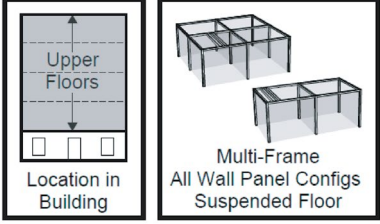
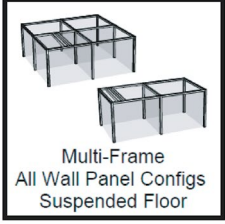
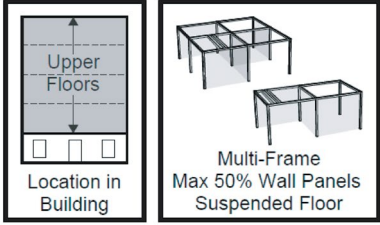
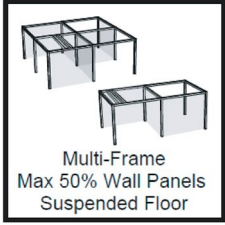
The following is an overview of the anchoring type required by the IBC and CBC:

<p>1 x 1 Section All Wall Panel Configuration Slab on Grade</p>			Rating	Value	Anchor Type	Baffle Coverage
			LOW	$S_s < 0.31$	TYPE A	100%
			MODERATE	$0.31 < S_s < 2.5$	TYPE B	100%
			HIGH	$2.5 < S_s < 2.75$	TYPE B	75%
			VERY HIGH	$S_s > 2.75$	N/A	OUT OF SCOPE
<p>1 x 1 Section All Wall Panel Configuration Suspended Floor</p>			Rating	Value	Anchor Type	Baffle Coverage
			LOW	$S_s < 0.2$	TYPE A or D	100%
			MODERATE	$0.2 < S_s < 2.75$	TYPE C or E	100%
			HIGH	$S_s > 2.75$	N/A	OUT OF SCOPE
<p>Multi-Frame All Wall Panel Configuration Slab on Grade</p>			Rating	Value	Anchor Type	Baffle Coverage
			VERY LOW	$S_s < 0.2$	TYPE A	100%
			LOW	$0.2 < S_s < 1.25$	TYPE B	100%
			MODERATE	$1.25 < S_s < 1.6$	TYPE B	50%
			HIGH	$1.6 < S_s < 1.85$	TYPE B	0%
			VERY HIGH	$S_s > 1.85$	N/A	OUT OF SCOPE
<p>Multi-Frame Max. 50% Wall Panels Slab on Grade</p>			Rating	Value	Anchor Type	Baffle Coverage
			VERY LOW	$S_s < 0.2$	TYPE A	100%
			LOW	$0.2 < S_s < 1.85$	TYPE B	100%
			MODERATE	$1.85 < S_s < 2.0$	TYPE B	50%
			HIGH	$2.0 < S_s < 2.75$	TYPE B	0%
			VERY HIGH	$S_s > 2.75$	N/A	OUT OF SCOPE
<p>Multi-Frame All Wall Panel Configuration Suspended Floor</p>			Rating	Value	Anchor Type	Baffle Coverage
			VERY LOW	$S_s < 0.2$	TYPE A or D	100%
			LOW	$0.2 < S_s < 1.25$	TYPE C or E	100%
			MODERATE	$1.25 < S_s < 1.6$	TYPE C or E	50%
			HIGH	$1.6 < S_s < 1.85$	TYPE C or E	0%
			VERY HIGH	$S_s > 1.85$	N/A	OUT OF SCOPE
<p>Multi-Frame Max. 50% Wall Panels Suspended Floor</p>			Rating	Value	Anchor Type	Baffle Coverage
			VERY LOW	$S_s < 0.2$	TYPE A or D	100%
			LOW	$0.2 < S_s < 1.85$	TYPE C or E	100%
			MODERATE	$1.85 < S_s < 2.0$	TYPE C or E	50%
			HIGH	$2.0 < S_s < 2.75$	TYPE C or E	0%
			VERY HIGH	$S_s > 2.75$	N/A	OUT OF SCOPE

* Max 50% Wall Panels means no more than 50% of the frame in each orthogonal direction can be filled with solid fascia (or glass fascia , fabric wrapped fascia; sliding screens panels are not considered here).

planning for frame anchoring & baffle coverage limitation (continued)

The following is an overview of the anchoring type required by the NBCC:

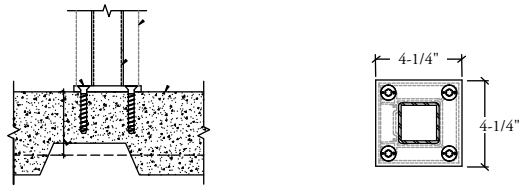
1 x 1 Section All Wall Panel Configuration Slab on Grade			Rating	Value	Anchor Type	Baffle Coverage
1 x 1 Section All Wall Panel Configuration Suspended Floor			Rating	Value	Anchor Type	Baffle Coverage
Multi-Frame All Wall Panel Configuration Slab on Grade			Rating	Value	Anchor Type	Baffle Coverage
Multi-Frame Max. 50% Wall Panels Slab on Grade			Rating	Value	Anchor Type	Baffle Coverage
Multi-Frame All Wall Panel Configuration Suspended Floor			Rating	Value	Anchor Type	Baffle Coverage
Multi-Frame Max. 50% Wall Panels Suspended Floor			Rating	Value	Anchor Type	Baffle Coverage

* Max 50% Wall Panels means no more than 50% of the frame in each orthogonal direction can be filled with solid fascia (or glass fascia, fabric wrapped fascia; sliding screens panels are not considered here).

planning for frame anchoring in seismic zones

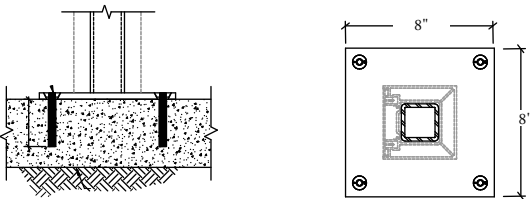
The following describes the options for seismic anchoring.

Type A



Part	Description	Product Code
Floor Weldment	4-1/4" x 4-1/4" Anchor	FJSPW_T
Connection Hardware	Concrete Bolt Kit Drilling Jig Carpet Spacer (optional)	FJIN_AQ FJIN_DE FJIN_QS
Installation Tools	Leveling Shims	FJIT_LS

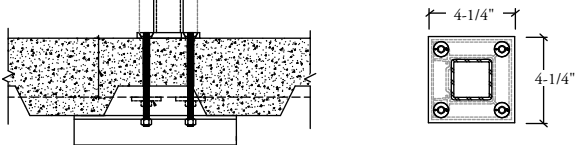
Type B



Part	Description	Product Code
Floor Weldment	8" x 8", Adhesion Rod & Nut	FJSPW_V
Connection Hardware	Concrete Anchor and Nut Kit Drilling Jig Anchor Installation Jig Carpet Spacer (optional)	FJIN_AN FJIN_DE FJIN_EJ FJIN_ES
Installation Tools	Leveling Shims Nut Fastening Tool	FJIT_LS FJIT_NT

Epoxy and cartridge not supplied, see seismic report for specific recommendations.

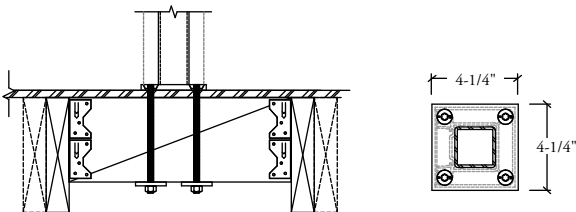
Type C



Part	Description	Product Code
Floor Weldment	4-1/4" x 4-1/4", Adhesion Rod & Nut	FJSPW_U
Connection Hardware	Nut Kit* Drilling Jig	FJIN_QN FJIN_DE
Installation Tools	Leveling Shims Nut Fastening Tool	FJIT_LS FJIT_NT

*Anchor rod not supplied, see seismic report for specific recommendations

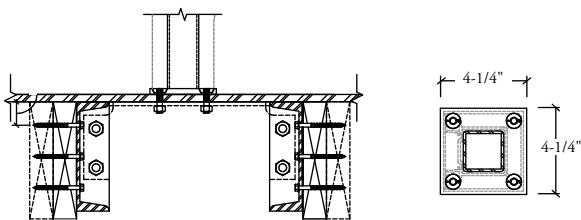
Type D



Part	Description	Product Code
Floor Weldment	4-1/4" x 4-1/4", Adhesion Rod & Nut	FJSPW_U
Connection Hardware	Nut Kit* Drilling Jig	FJIN_QN FJIN_DE
Installation Tools	Leveling Shims Nut Fastening Tool	FJIT_LS FJIT_NT

*Anchor rod not supplied, see seismic report for specific recommendations

Type E

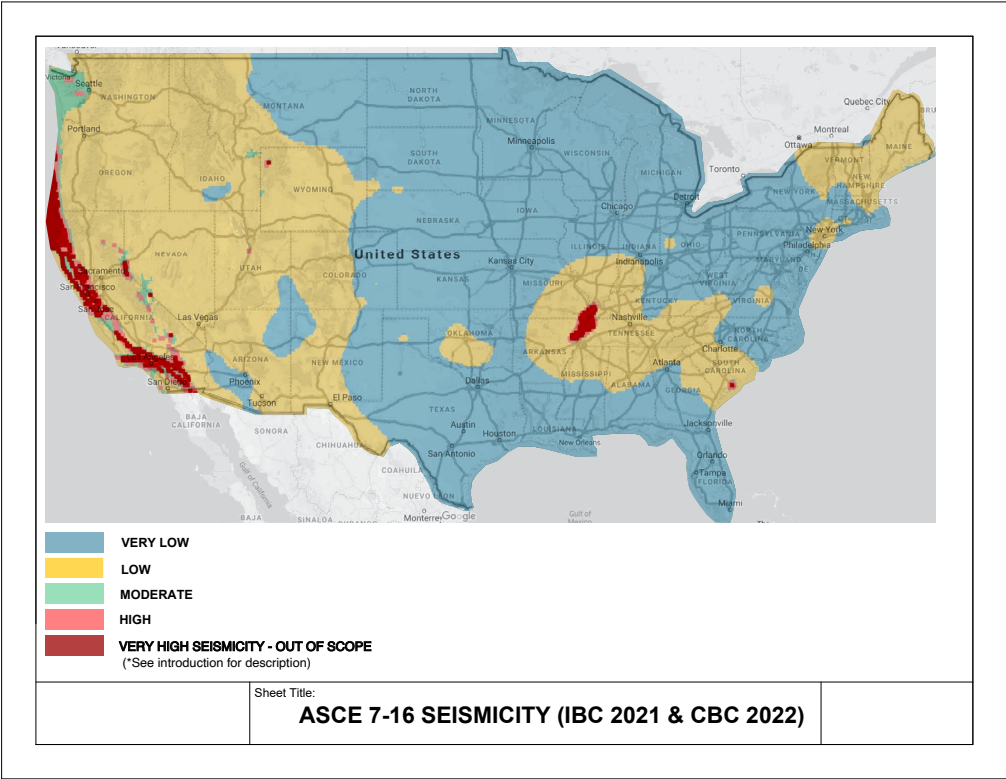


Part	Description	Product Code
Floor Weldment	4-1/4" x 4-1/4", Adhesion Rod & Nut	FJSPW_U
Connection Hardware	Nut Kit* Drilling Jig	FJIN_QN FJIN_DE
Installation Tools	Leveling Shims Nut Fastening Tool	FJIT_LS FJIT_NT

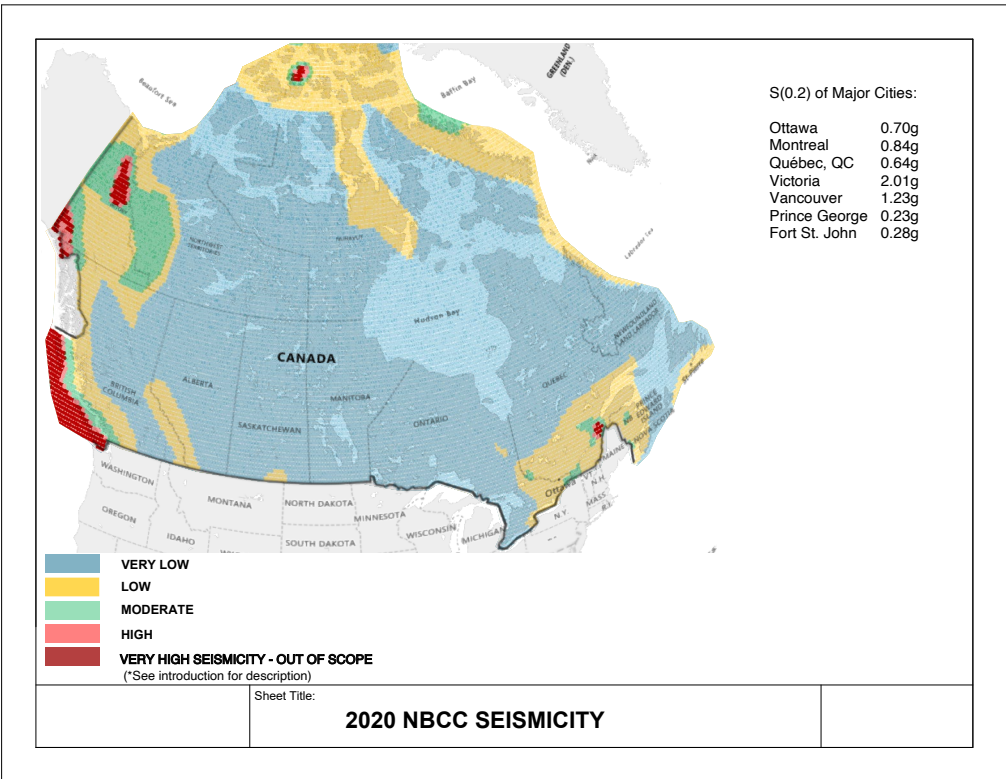
*Anchor rod not supplied, see seismic report for specific recommendations

planning for frame anchoring in seismic zones (continued)

Seismicity Map for United States.



Seismicity Map for Canada.



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