within

application guide

01.22.2024

tekpion

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 future possibilities.

what is within

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.

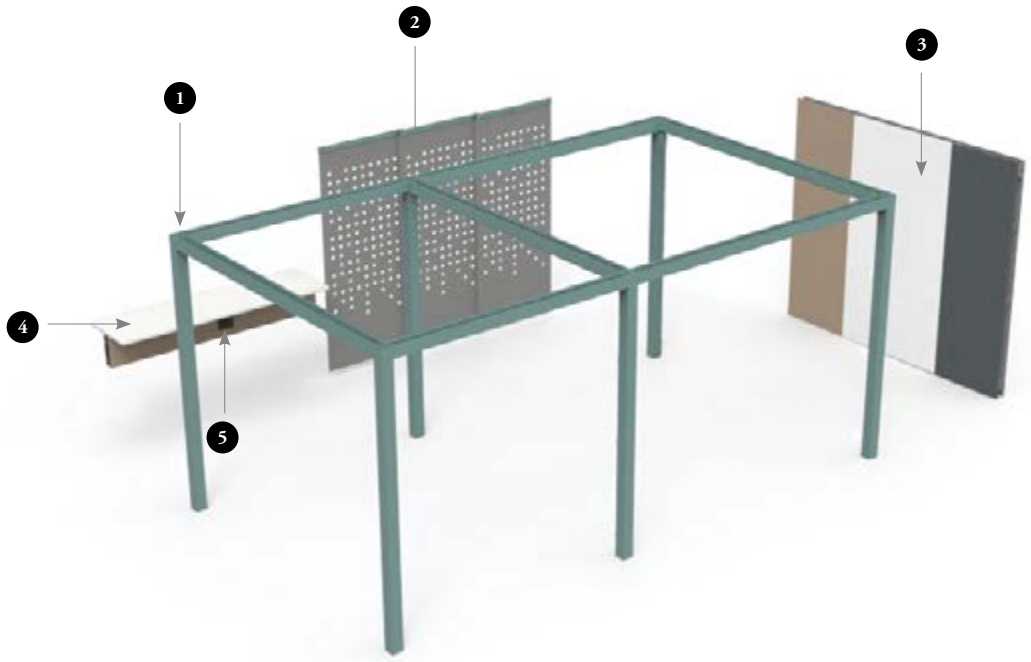
lounge

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.

components

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

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



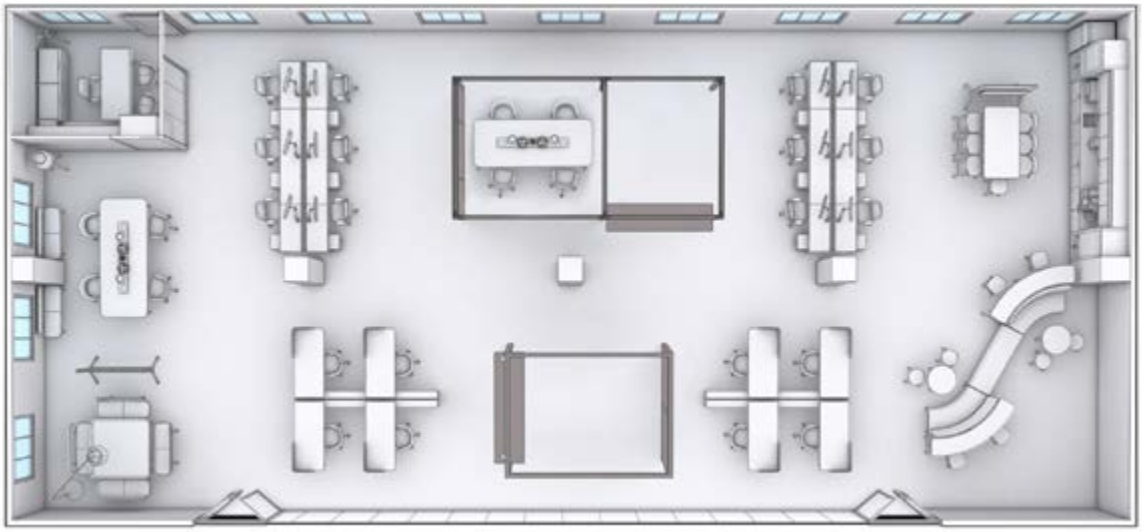
1. **Frame**
   Uses a post and beam as its main structural components while providing a support structure for all other elements of the Within system.
2. **Sliding Screens**
   Provides adaptable visual privacy while adding a soft natural felt texture to a space.
3. **Infills**
   Used to build walls 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.

office placement

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

centralized planning

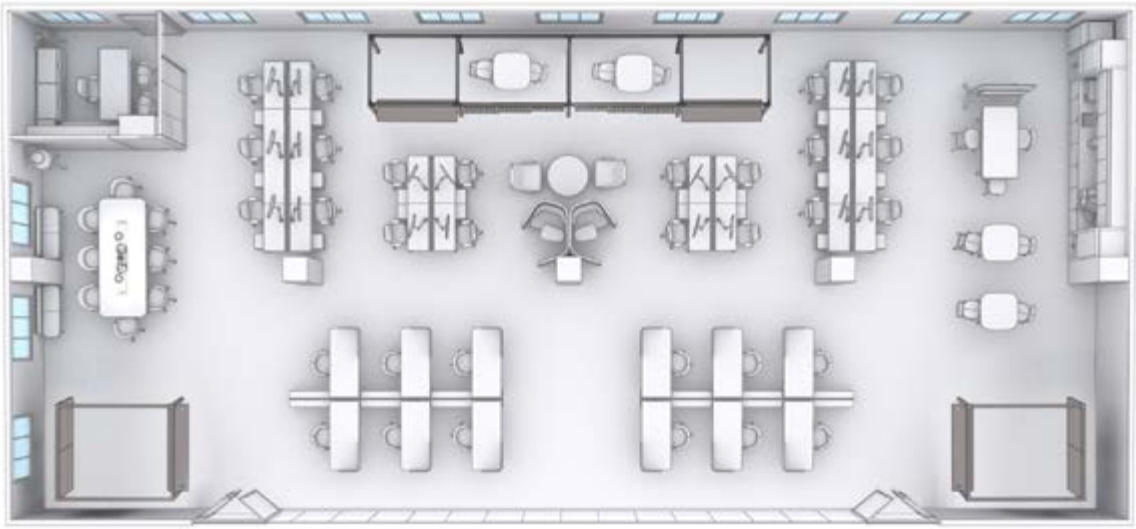
WithIn can be placed amongst furniture and workstations while acting as its own space division element. When centrally planning consider keeping an open side or adding a glass infill to maintain light transmission. Consider a screen or solid infill to increase visual privacy.



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.

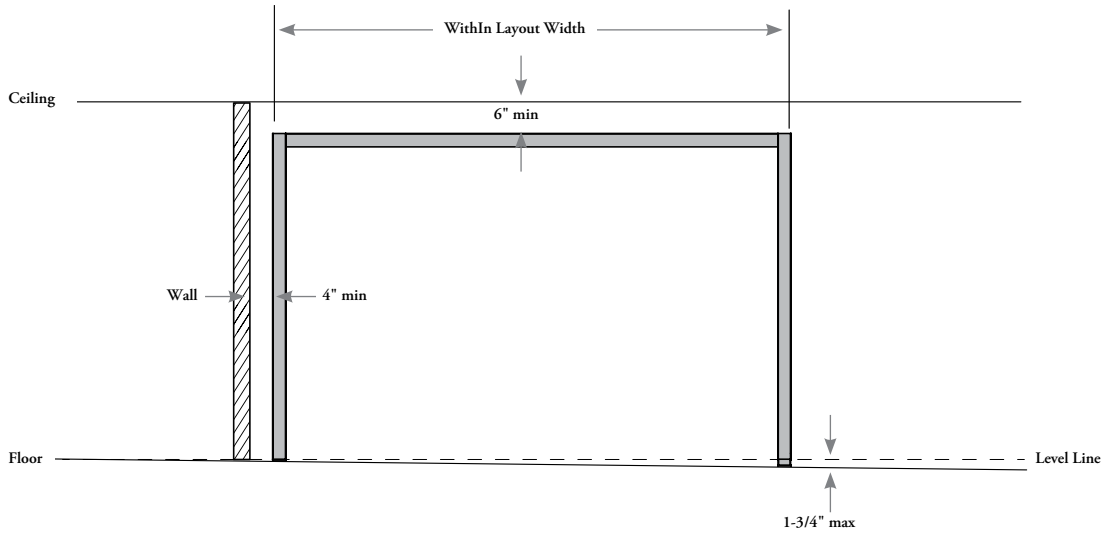


initial considerations

The following describes the planning considerations for the WithIn program.

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

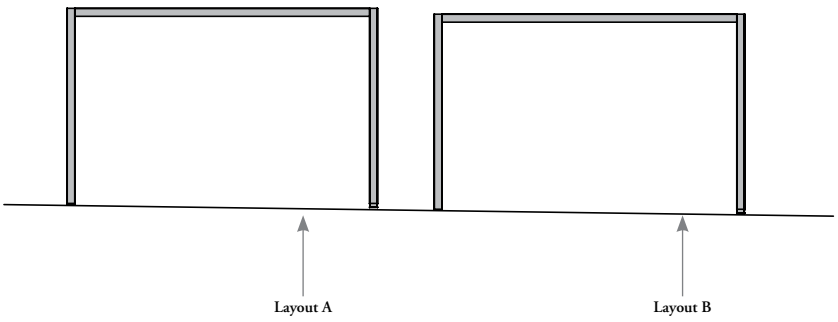
- The finish floor cannot deviates more than 1-3/4" from level over the width of a WithIn layout
- The layout must maintain a minimum distance of 4" from any wall or fixed structure for installation
- The layout must maintain a minimum distance of 6" above the layout to ensure adequate space for installation
- 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 .

If the floor level deviates greater then 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.

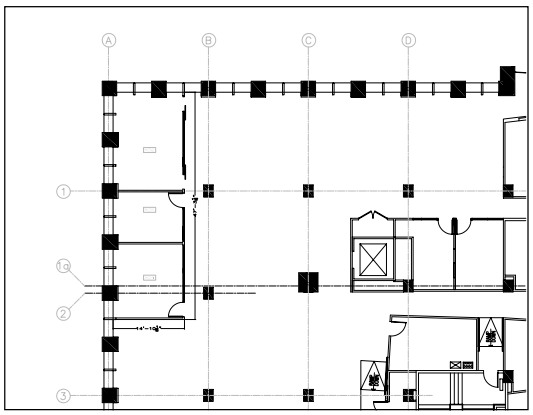
The following illustrates how to plan in a space the has a floor that deviates greater than 1-3/4":



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

Determine the functional intent of each space and place any worksurfaces in the framework if desired.

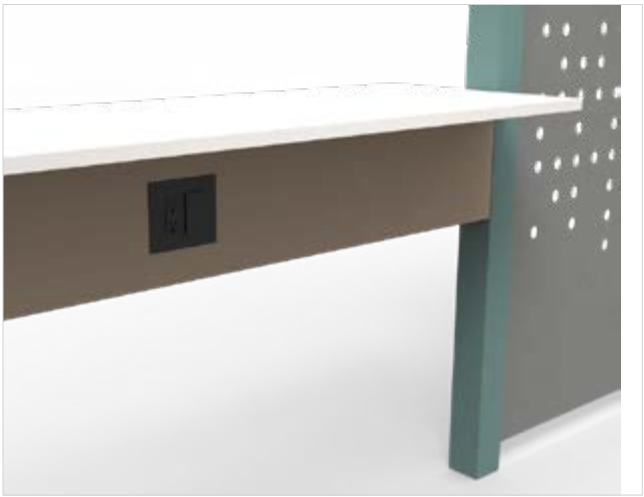
how to specify within

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.

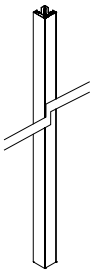


application guide

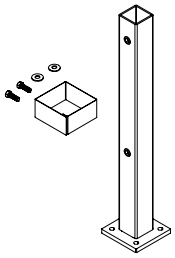
application guide

frames product map

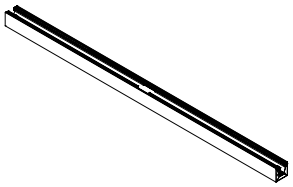
F J S P S **Structural Post**



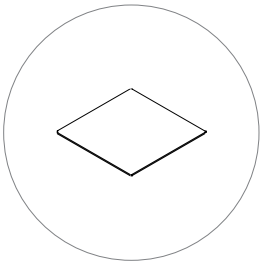
F J S P W **Floor Weldment**



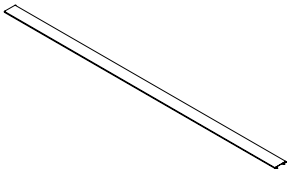
F J S B K **Structural Beam Kit**



F J S P C **Structural Post Top Cap**



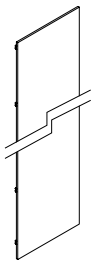
F J S B C **Structural Beam Cover**



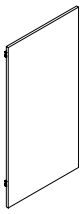
infill, wall fascias product map

Portrait

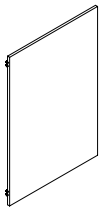
F J F P M N Portrait Solid Fascia - Monolithic



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

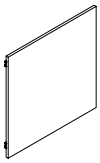


F J F P M S 2 Portrait Solid Fascia - Mid-Split, Level 2

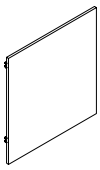


F J F P B S M Portrait Solid Fascia - Bi-Segmented Monolithic, Level 1

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



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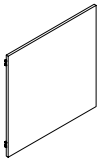
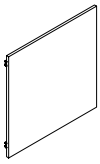
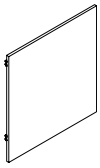


F J F P T S 3 Portrait Solid Fascia - Tri-Segmented, Level 3



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



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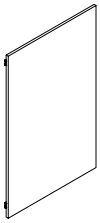
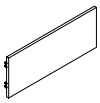
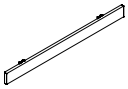


F J F P T W 3 Portrait Solid Fascia - Task Wall, Level 3

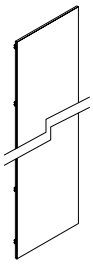


F J F P B Portrait Base Fascia

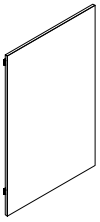


infill, wall fascias product map

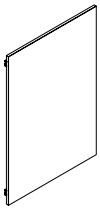
F J F P R M N Portrait Fabric Wrapped Fascia - Monolithic



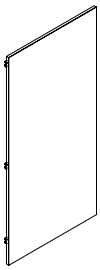
F J F P R M S M Portrait Fabric Wrapped Fascia - Mid-Split Monolithic, Level 1



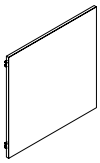
F J F P R M S 2 Portrait Fabric Wrapped Fascia - Mid-Split, Level 2



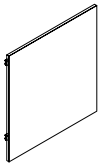
F J F P R B S M Portrait Fabric Wrapped Fascia - Bi-Segmented Monolithic, Level 1



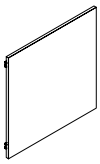
F J F P R B S 2 Portrait Fabric Wrapped Fascia - Bi-Segmented, Level 2



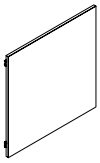
F J F P R T S M Portrait Fabric Wrapped Fascia - Tri-Segmented Monolithic, Level 1



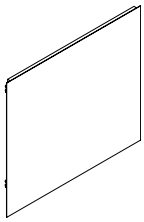
F J F P R T S 2 Portrait Fabric Wrapped Fascia - Tri-Segmented, Level 2



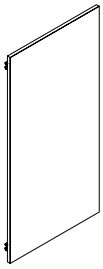
F J F P R T S 3 Portrait Fabric Wrapped Fascia - Tri-Segmented, Level 3



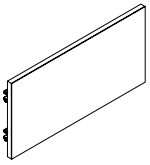
F J F P R T W M Portrait Fabric Wrapped Fascia - Task Wall Monolithic, Level 1



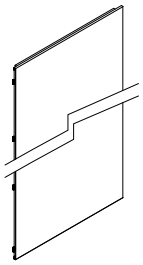
F J F P R T W 2 Portrait Fabric Wrapped Fascia - Task Wall, Level 2



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

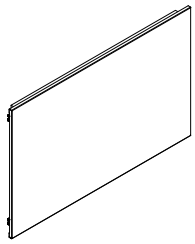


Portrait

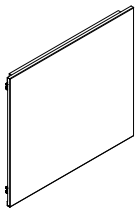
infill, wall fascias product map

Portrait

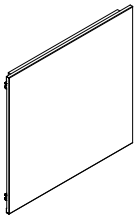
F J F P A T S 2 Portrait Acoustic Tackable Fascia - Tri-Segmented, Level 2



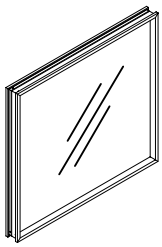
F J F P A M S 2 Portrait Acoustic Tackable Fascia - Mid-Split, Level 2



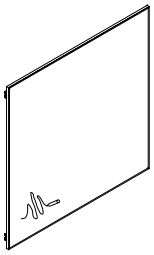
F J F P A T W 2 Portrait Acoustic Tackable Fascia - Task Wall, Level 2



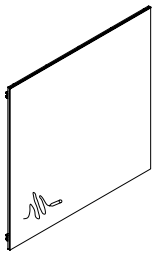
F J F P G C S Portrait Glass Fascia - Single Centered, Square Corner



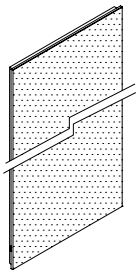
F J F P Y T W 2 Portrait Framed Backpainted Glass Markerboard - Task Wall, Level 2



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

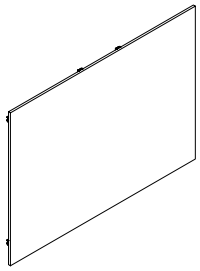


F J F P M P M N Portrait Micro Perforated Metal Acoustic Fascia - Monolithic

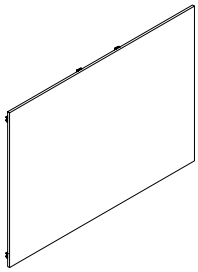


infill, wall fascias product map

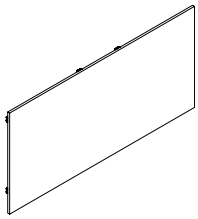
F J F L M S M Landscape Solid Fascia - Mid-Split Monolithic, Level 1



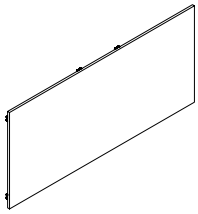
F J F L M S 2 Landscape Solid Fascia - Mid-Split, Level 2



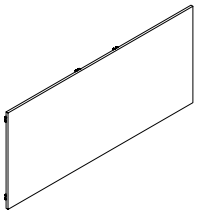
F J F L T S M Landscape Solid Fascia - Tri-Segmented Monolithic, Level 1



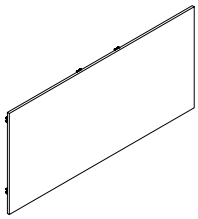
F J F L T S 2 Landscape Solid Fascia - Tri-Segmented, Level 2



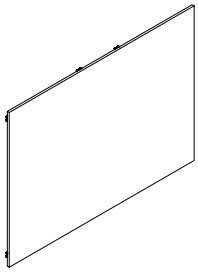
F J F L T S 3 Landscape Solid Fascia - Tri-Segmented, Level 3



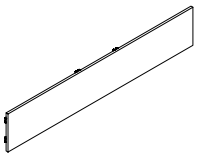
F J F L T W M Landscape Solid Fascia - Task Wall Monolithic, Level 1



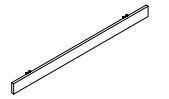
F J F L T W 2 Landscape Solid Fascia - Task Wall, Level 2



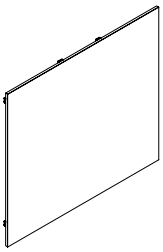
F J F L T W 3 Landscape Solid Fascia - Task Wall, Level 3



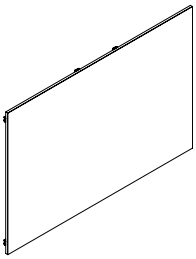
F J F L B Landscape Base Fascia



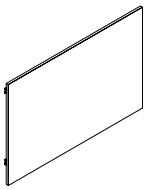
F J F L R M S M Landscape Fabric Wrapped Fascia - Mid-Split Monolithic, Level 1



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

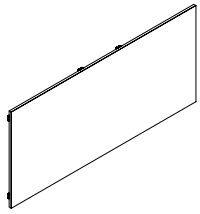


Landscape

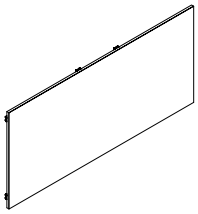
infill, wall fascias product map

Landscape

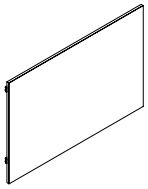
F J F L R T S 2 Landscape Fabric Wrapped Fascia - Tri-Segmented, Level 2



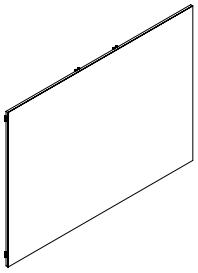
F J F L R T S 3 Landscape Fabric Wrapped Fascia - Tri-Segmented, Level 3



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

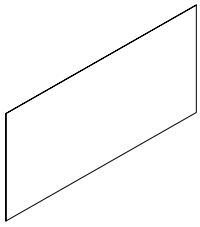


F J F L R T W 2 Landscape Fabric Wrapped Fascia - Task Wall, Level 2

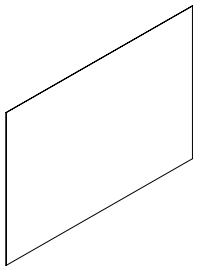


F J F L R T W 3 Landscape Fabric Wrapped Fascia - Task Wall, Level 3

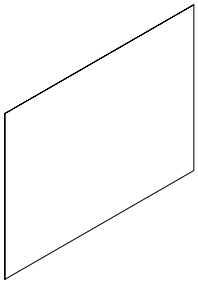
F J F L A T S 2 Landscape Acoustic Tackable Fascia - Tri-Segmented, Level 2



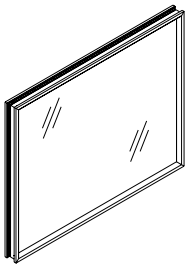
F J F L A M S 2 Landscape Acoustic Tackable Fascia - Mid-Split, Level 2



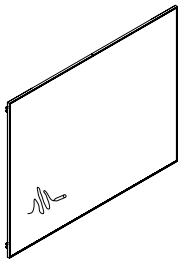
F J F L A T W 2 Landscape Acoustic Tackable Fascia - Task Wall, Level 2



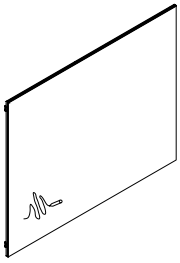
F J F L G C S Landscape Glass Fascia - Single Centered, Square Corner



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



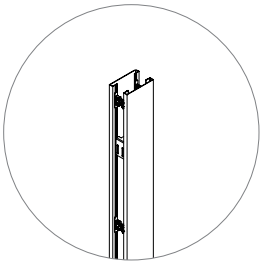
F J F L X T W 2 Landscape Frameless Backpainted Glass Markerboard - Task Wall, Level 2



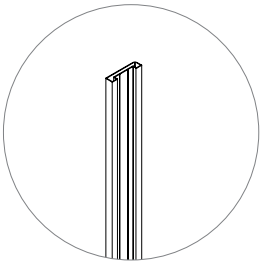
infill, wall fascias product map

Frame Kits & Components

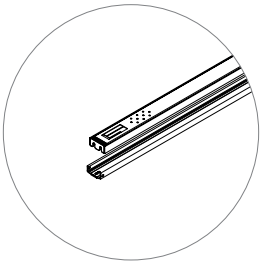
F J F P A K **Aluminum Fascia Kit**



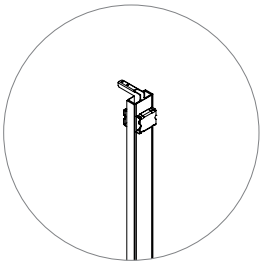
F J F W E **Finished Wall End**



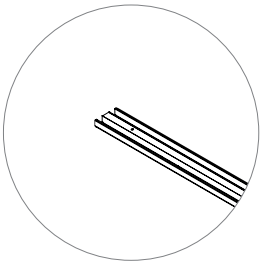
F J S H P **Horizontal Rail Package**



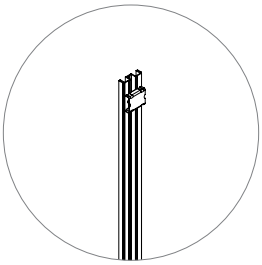
F J S V P **Vertical Post Package**



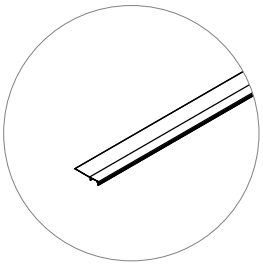
F J S T H **Half Horizontal Transition**



F J S T V **Half Vertical Transition**

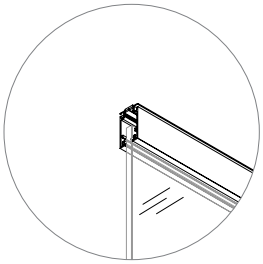


F J S W G **Wall Gasket**

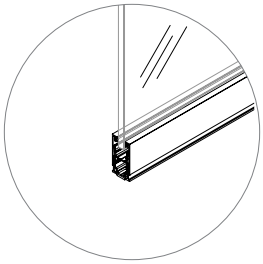


infill, glass product map

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



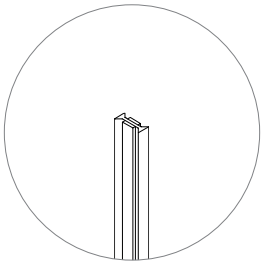
F J H B F **Glass Infill Horizontal Base Frame**



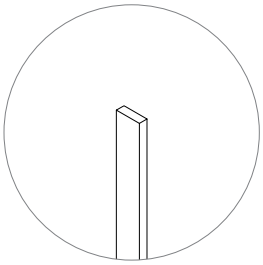
F J H G A **Glass Infill - 10mm Thickness**

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

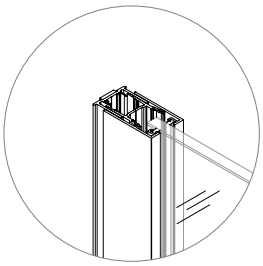
F J H C P **Glass Infill Connector, Clear Plastic**



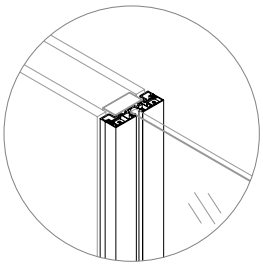
F J H C T **Glass Infill Connector, Tape**



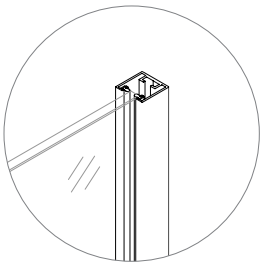
F J H W S **Glass Infill Wall Start**



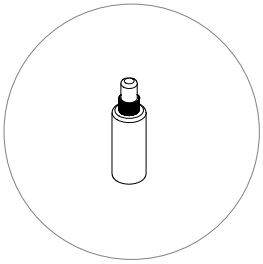
F J H T F I **Glass Infill to Wall Fascia Transition**



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

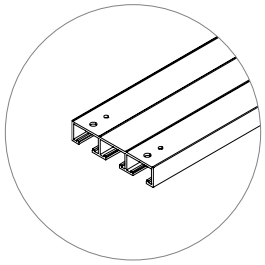


F C A K **Activator Kit**

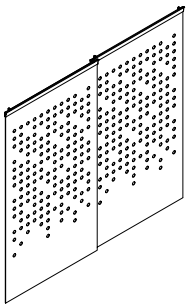


screens product map

F J S T K **Screen Track Framework Kit**

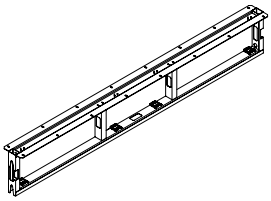


F J T F S **Patterned Felt Screen**

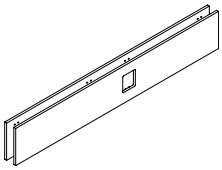


worksurfaces product map

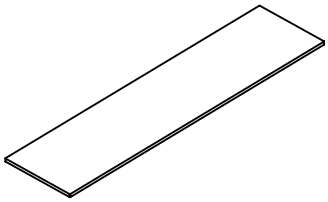
F J T W F K Worksurface Framework Kit



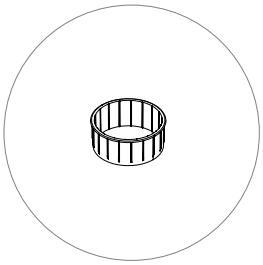
F J T L F P Fascia Package for Bar Height Worksurface



F J T W S F Bar Height Worksurface

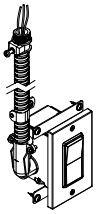


F J T W D G Worksurface Ring Grommet

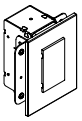


lighting, electrics & communications product map

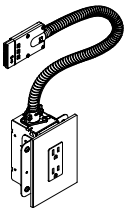
E L S F J **Light Switch**



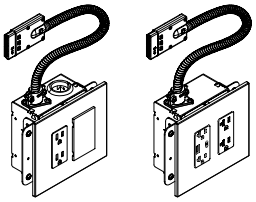
E P D M C F J **Power Data Vertical Module - Communication**



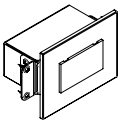
E P D M S F J **Power Data Vertical Module - Single**



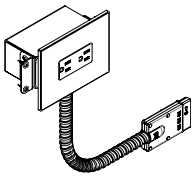
E P D M D F J **Power Data Vertical Module - Double**



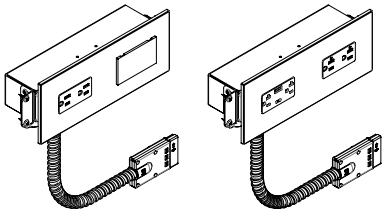
E P D H C F J **Power Data Horizontal Module - Communication**



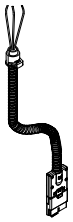
E P D H S F J **Power Data Horizontal Module - Single**



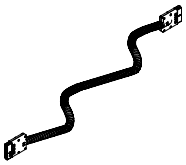
E P D H D F J **Power Data Horizontal Module - Double**



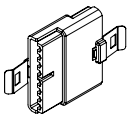
E P D S C F J **Power Data Starter Cable**



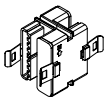
E P D C H F J **Power Data Connecting Harness**



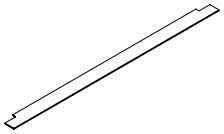
E P D I C F J **Power Data Inline Connector**



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

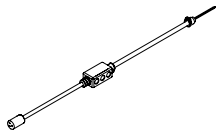


E L W M L F J **Wall-Mounted Light**

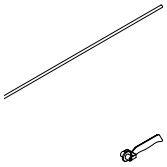


lighting, electrics & communications product map

E L P F F J Light Power Feed



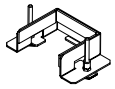
E L W M G F J Landscape Light Wire Management



E P Q F J Power Pole

accessories product map

F J I T **Installation Tools**



Vertical Post Leveling Jig Kit

Concrete Repair Kit

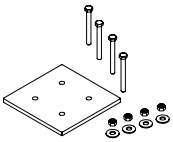
Half Vertical, Half Horizontal Installation Jig Kit

Glass Infill Installation Jig

F J I N **Connection Hardware**

Concrete Anchor and Bolt Kit

Vertical Post Carpet Spacer



Raised Floor Kit

Vertical Post Drilling Jig

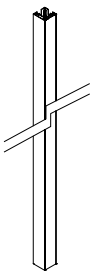
frames

frames

frame basics

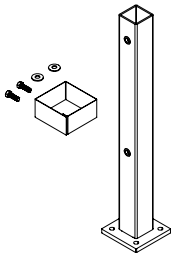
The frame consists of the following discrete elements.

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



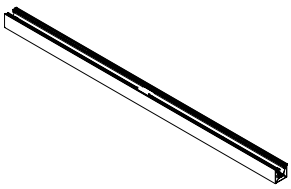
Structural Post (FJSPS)

- 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



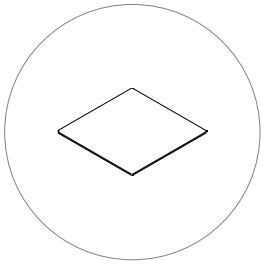
Floor Weldment (FJSPW)

- Includes: Standard Weldment for Floor Anchoring (S)



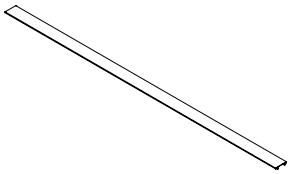
Structural Beam Kit (FJSBK)

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



Structural Post Top Cap (FJSPC)

- Includes: Cap



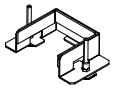
Structural Beam Cover (FJSBC)

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

frame basics (continued)

The frame consists of the following discrete elements.

Available Accessories:



Vertical Post Leveling Jig Kit

Concrete Repair Kit

Half Vertical, Half Horizontal Installation Jig Kit

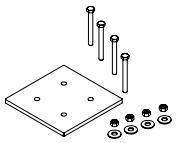
Glass Infill Installation Jig

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)

Concrete Anchor and Bolt Kit

Vertical Post Carpet Spacer



Raised Floor Kit

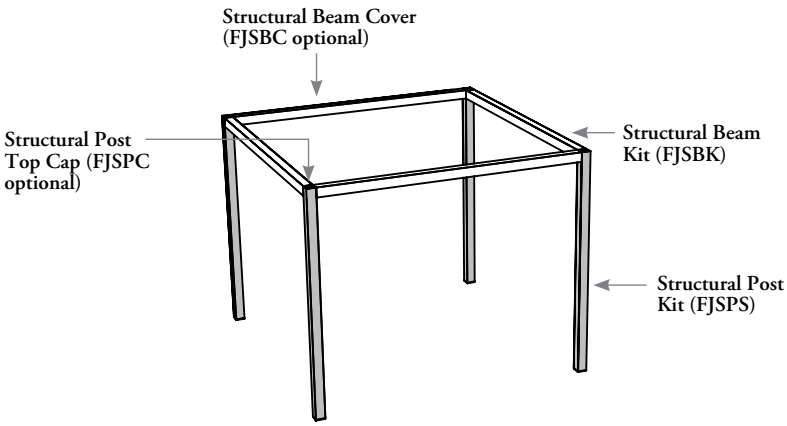
Vertical Post Drilling Jig

Connection Hardware (FJIN)

Options available:
- Concrete Anchor and Bolt Kit (AB)
- Vertical Post Carpet Spacer (CS)
- Raised Floor Kit (RF)
- Vertical Post Drilling Jig (DJ)

planning frame layouts

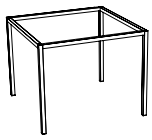
The following illustrates possible configuration when building a frame.



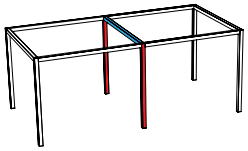
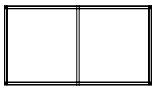
Every frame must have the following minimum number of posts and beams to build a frame for a WithIn layout:
- 4 x posts
- 4 x beams

When creating larger configurations posts and beams can be shared.

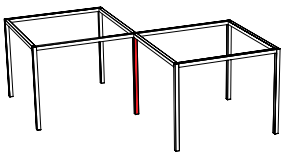
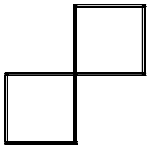
The example below show a few examples.
- Shared posts are highlighted in Red
- Shared beams are highlighted in Blue



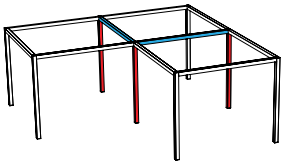
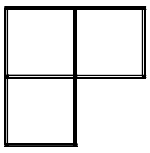

4 x Posts
4 x Beams

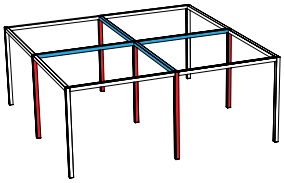
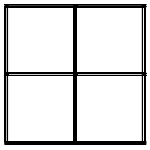
6 x Posts
7 x Beams

7 x Posts
8 x Beams

8 x Posts
10 x Beams

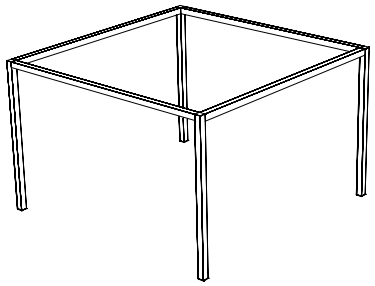



9 x Posts
12 x Beams

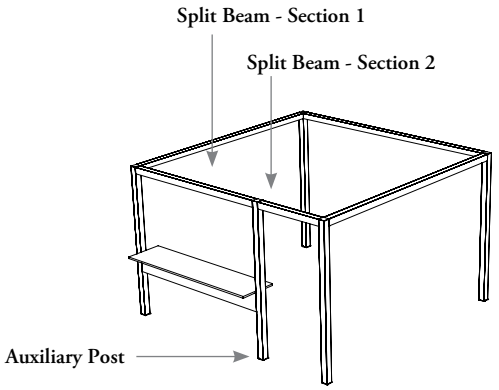
planning frame layouts (continued)

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

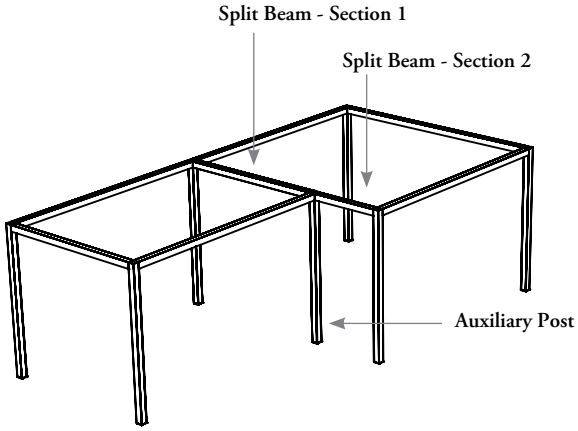
Frame layouts are built using squares and rectangles. Different sizes squares and rectangles can be combined to create larger layouts.



Auxiliary posts can be added to allow worksurfaces that are shorter then the beam they are placed under (Example 1) or be used when combining spaces that have a different widths (Example 2). Adding a post splits the beams into two separate sections. No beam section can be less then 40" in length.



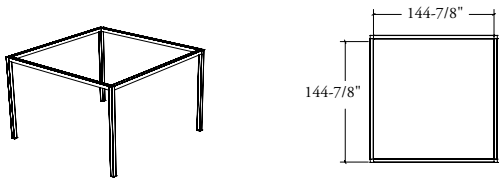
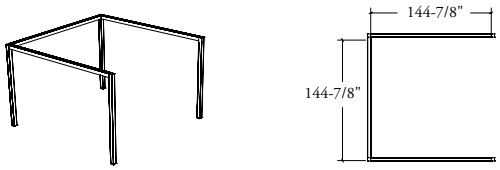
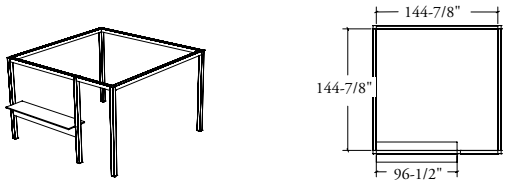
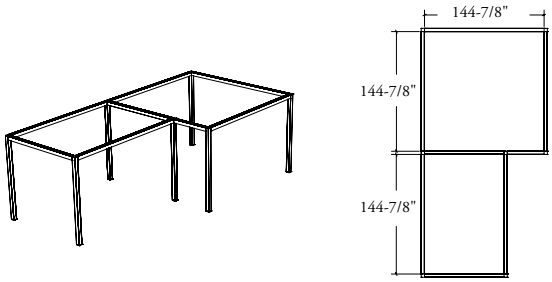
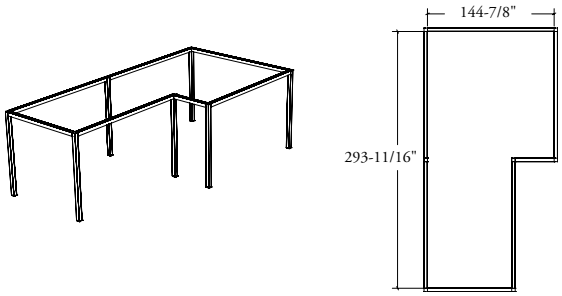
Example 1



Example 2

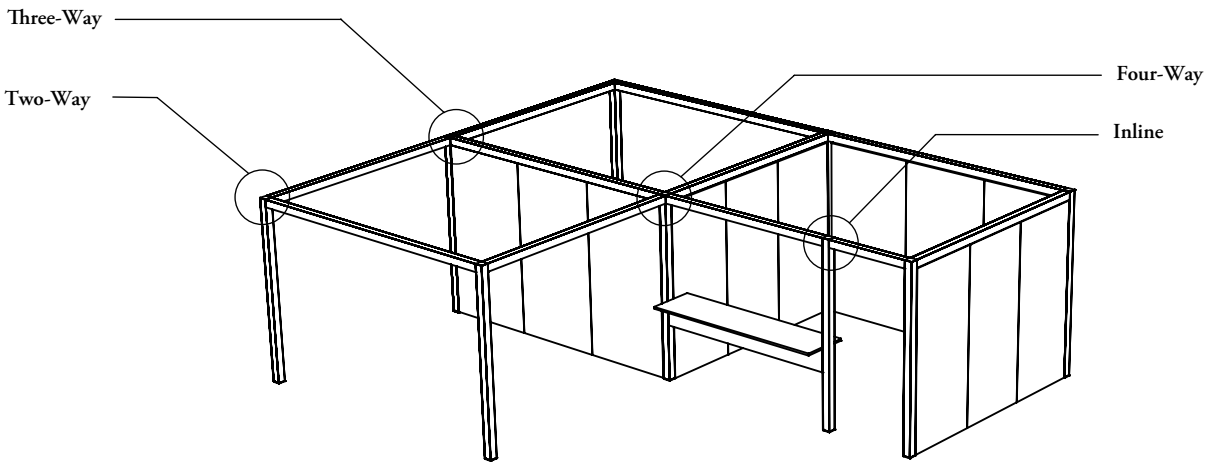
planning frame layouts (continued)

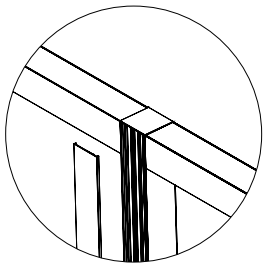
The following illustrates possible configuration when building a frame with the posts and beams.

✓		The maximum size of any post to post opening is 144-7/8" x 144-7/8".
✗		A layout must have an enclosed space forming a square or rectangle.
✓		If a worksurface is shorter in length then the beam it is placed under an auxiliary post is required.
✓		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.
✗		Beams must create closed squares or rectangles. No run of beams can surpass 144-7/8" without a perpendicular cross beam.

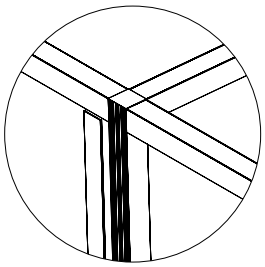
planning with post & beam connections

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

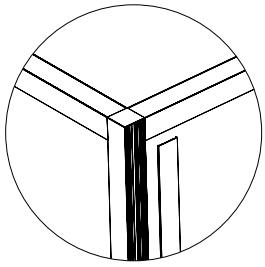




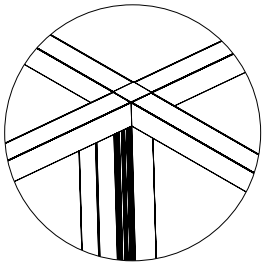
Inline - Non-Handed
Post front cover is always placed on one of the two sides perpendicular to the beams.



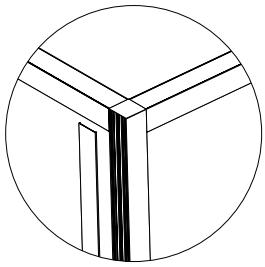
Three-Way - Non-handed
Post front cover is always on opposite side of the center beam.



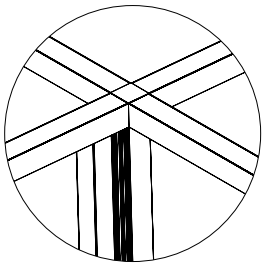
Two-Way - Right Hand
Post front cover is always on the outside perimeter oriented on the right side when facing the corner.



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.

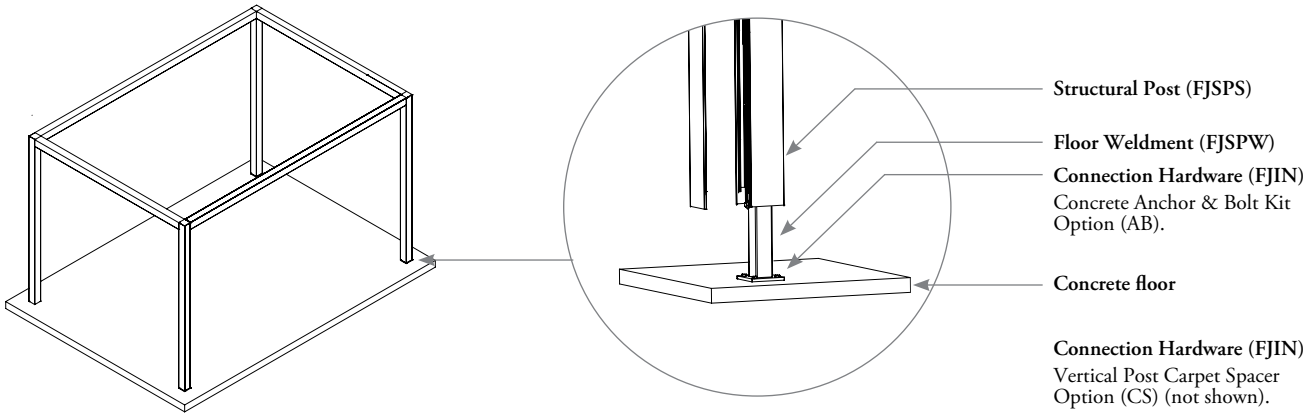
planning for frame anchoring

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 then 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

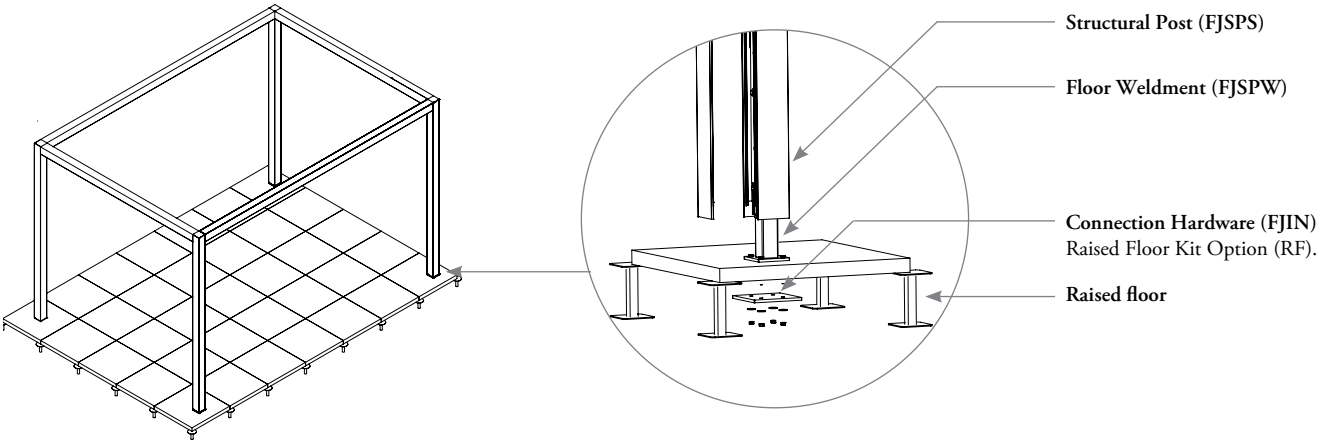
planning for frame anchoring (continued)

raised floor mounted

When planning to install Within on a raised floor the placement of the Within layout should been 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 then six are required
- Use 1 x Installation Tools (FJIT) option (LJ) Vertical Post Leveling Jig Kit for every four posts ordered
- Include 1x 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

infill, wall fascias

infill, wall fascias

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)

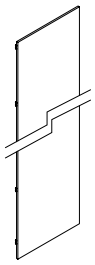
	Walls Types	
Full Glass		Ideal for full base to beam glass.
Mid-Split Glass		Ideal for coordinating with mid-split solid and fabric fascias.

portrait monolithic basics

The portrait monolithic infill fascias include the following options.

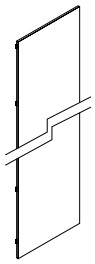
Finishes: Fascia Laminates, Flintwood

Fabrics: Architectural, COM



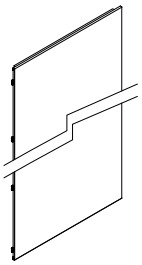
Portrait Solid Fascia - Monolithic (FJFPMN)

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



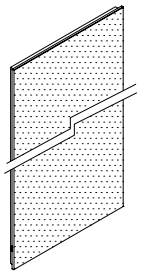
Portrait Fabric Wrapped Fascia-Monolithic (FJFPRMN)

- 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)

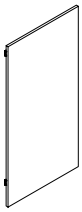
- Height: 92"
- Width: 12" - 44" (1/8" increments)

portrait mid-split basics

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

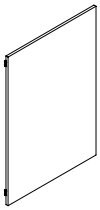
Finishes: Fascia Laminates, Flintwood

Fabrics: Architectural, COM



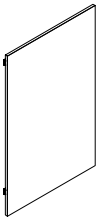
Portrait Solid Fascia - Mid-Split Monolithic, Level 1 (FJFPMSM)

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



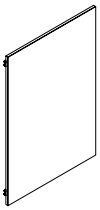
Portrait Solid Fascia - Mid-Split, Level 2 (FJFPMS2)

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



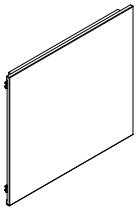
Portrait Fabric Wrapped Fascia - Mid Split Monolithic, Level 1 (FJFPRMSM)

- 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)

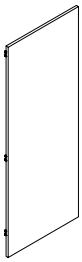
- Height: 44"
- Width: 12" - 48" (1/8" increments)

portrait bi-segmented basics

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

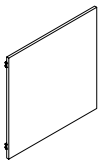
Finishes: Fascia Laminates, Flintwood

Fabrics: Architectural, COM



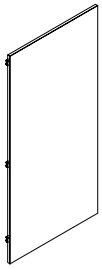
Portrait Solid Fascia - Bi-Segmented Monolithic, Level 1 (FJFPBSM)

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



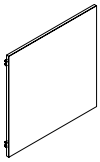
Portrait Solid Fascia - Bi-Segmented, Level 2 (FJFPBS2)

- 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)

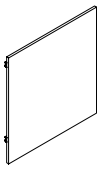
- Height: 30"
- Width: 12" - 48" (1/8" increments)

portrait tri-segmented basics

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

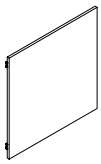
Finishes: Fascia Laminates, Flintwood

Fabrics: Architectural, COM



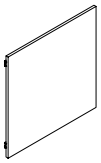
Portrait Solid Fascia - Tri-Segmented Monolithic, Level 1 (FJFPTSM)

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



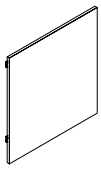
Portrait Solid Fascia - Tri-Segmented, Level 2 (FJFPTS2)

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



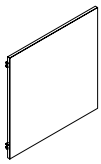
Portrait Solid Fascia - Tri-Segmented, Level 3 (FJFPTS3)

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



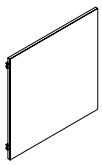
Portrait Fabric Wrapped Fascia - Tri-Segmented Monolithic, Level 1 (FJFPRTSM)

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



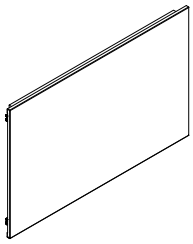
Portrait Fabric Wrapped Fascia - Tri-Segmented, Level 2 (FJFPRTS2)

- 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)

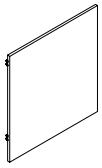
- Height: 30"
- Width: 12" - 48" (1/8" increments)

portrait task wall basics

The portrait task wall infill fascias include the following options.

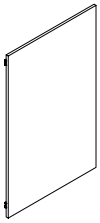
Finishes: Fascia Laminates, Flintwood

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

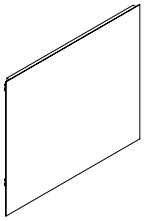


Portrait Solid Fascia - Task Wall, Level 2 (FJFPTW2)

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

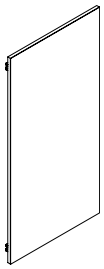
Portrait Solid Fascia - Task Wall, Level 3 (FJFPTW3)

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



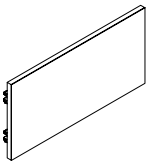
Portrait Fabric Wrapped Fascia - Task Wall Monolithic, Level 1 (FJFPRTWM)

- 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)

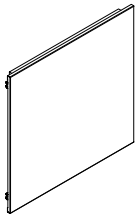
- Height: 12"
- Width: 12" - 48" (1/8" increments)

portrait task wall basics (continued)

The portrait task wall infill fascias include the following options.

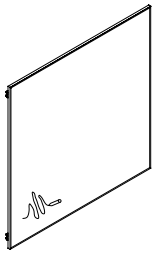
Finishes: Select Backpainted Glass Colors
Select Paint Colors

Fabrics: Architectural, COM



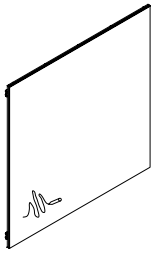
Portrait Acoustic Tackable Fascia - Task Wall, Level 2 (FJFPATW2)

- 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)

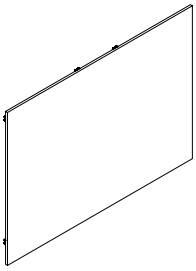
- Height: 48"
- Width: 12" - 48" (1/8" increments)

landscape mid-split basics

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

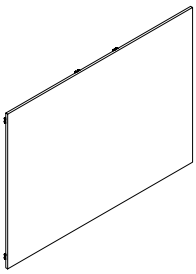
Finishes: Fascia Laminates, Flintwood

Fabrics: Panel, COM



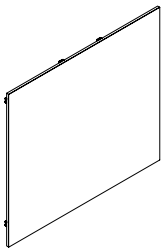
Landscape Solid Fascia - Mid-Split Monolithic, Level 1 (FJFLMSM)

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



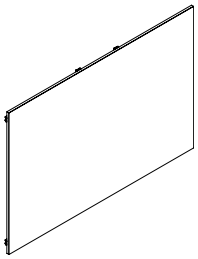
Landscape Solid Fascia - Mid-Split, Level 2 (FJFLMS2)

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



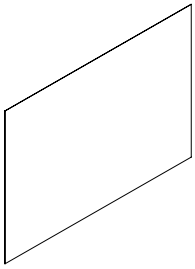
Landscape Fabric Wrapped Fascia - Mid Split Monolithic, Level 1 (FJFLRMSM)

- 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)

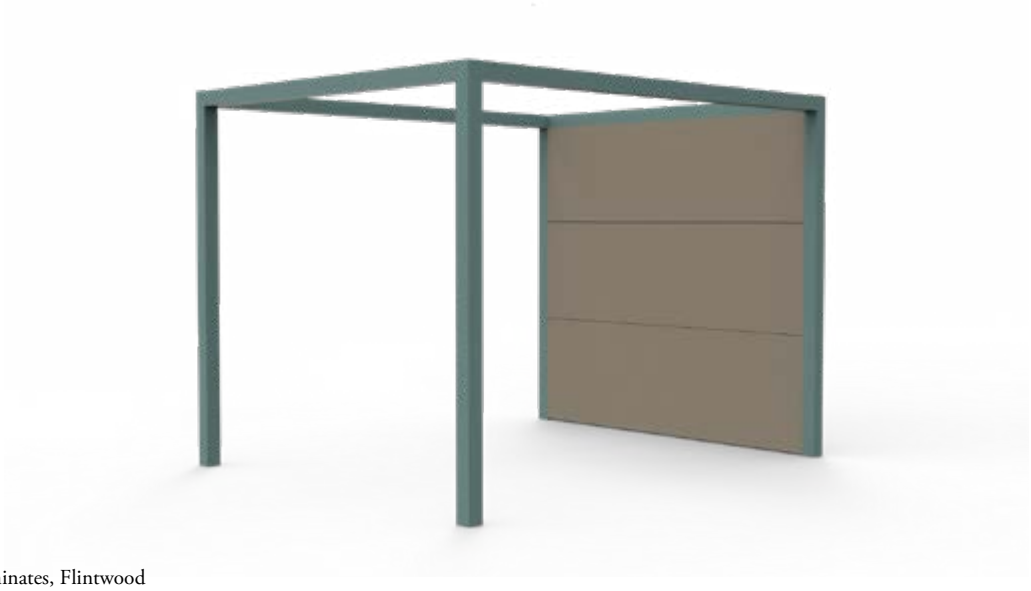


Landscape Acoustic Tackable Fascia - Mid-Split, Level 2 (FJFLAMS2)

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

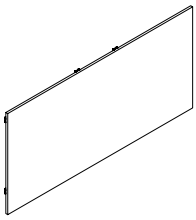
landscape tri-segmented basics

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



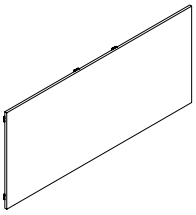
Finishes: Fascia Laminates, Flintwood

Fabrics: Panel, COM



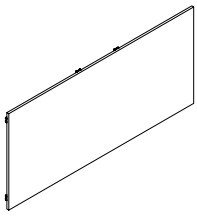
Landscape Solid Fascia - Tri-Segmented Monolithic, Level 1 (FJFLTSM)

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



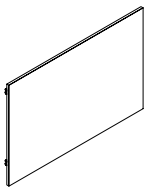
Landscape Solid Fascia - Tri-Segmented, Level 2 (FJFLTS2)

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



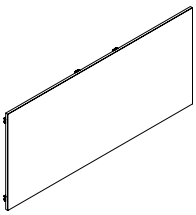
Landscape Solid Fascia - Tri-Segmented, Level 3 (FJFLTS3)

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



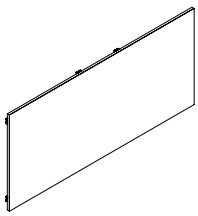
Landscape Fabric Wrapped Fascia - Tri-Segmented Monolithic, Level 1 (FJFLRTSM)

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



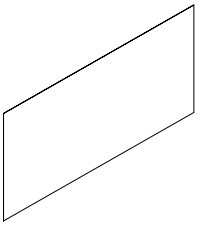
Landscape Fabric Wrapped Fascia -Tri-Segmented, Level 2 (FJFLRTS2)

- 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)

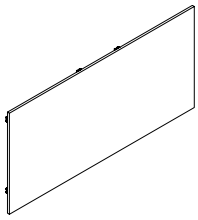
- Height: 30"
- Width: 12" - 120" (1/8" increments)

landscape task wall basics

The landscape task wall infill fascias include the following options.

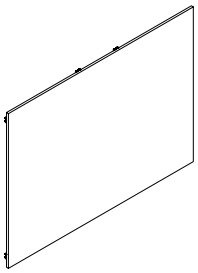
Finishes: Fascia Laminates, Flintwood

Fabrics: Panel, COM



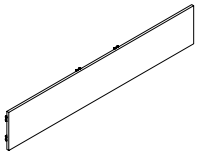
Landscape Solid Fascia - Task Wall Monolithic, Level 1 (FJFLTWM)

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



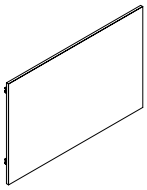
Landscape Solid Fascia - Task Wall, Level 2 (FJFLTW2)

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



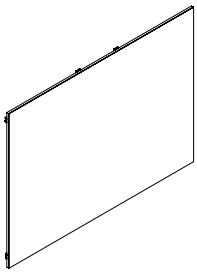
Landscape Solid Fascia - Task Wall, Level 3 (FJFLTW3)

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



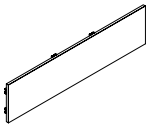
Landscape Fabric Wrapped Fascia - Task Wall Monolithic, Level 1 (FJFLRTWM)

- 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)

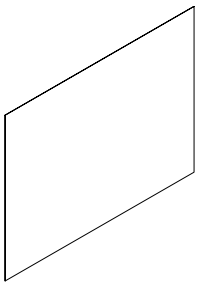
- Height: 12"
- Width: 12" - 120" (1/8" increments)

landscape task wall basics (continued)

The landscape task wall infill fascias include the following options.

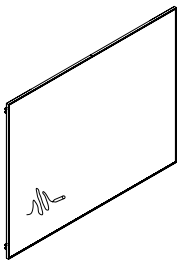
Finishes: Select Backpainted Glass Color
Select Paint Colors

Fabrics: Panel, COM



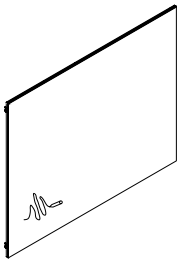
Landscape Acoustic Tackable Fascia - Task Wall, Level 2 (FJFLATW2)

- 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)



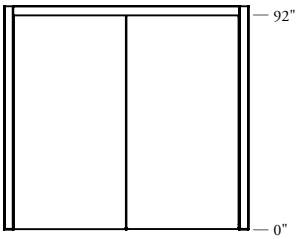
Landscape Frameless Backpainted Glass Markerboard - Task Wall, Level 2 (FJFLXTW2)

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

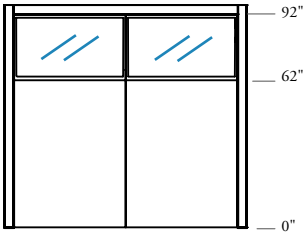
infills, wall fascias elevations overview

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

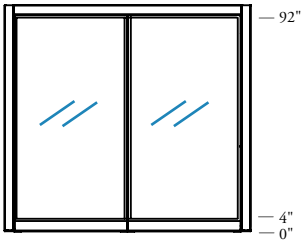
portrait



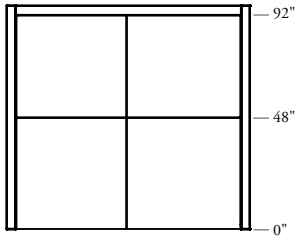
Monolithic



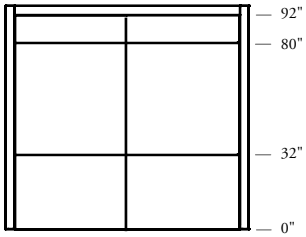
Bi-Segmented



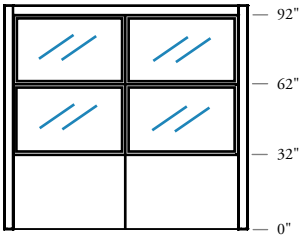
Full



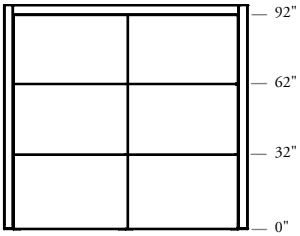
Mid-Split



Task Wall

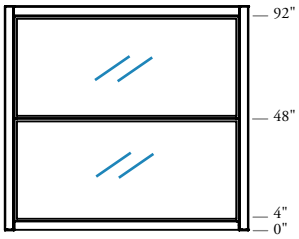


Tri-Segmented

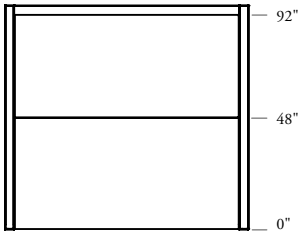


Tri-Segmented

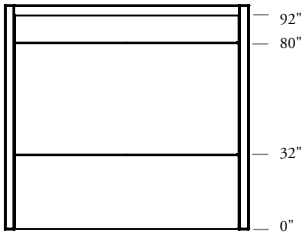
landscape



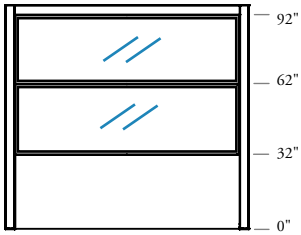
Mid-Split



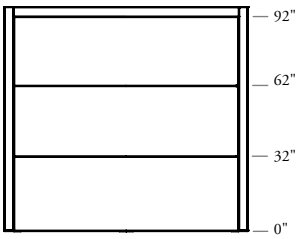
Mid-Split



Task Wall



Tri-Segmented



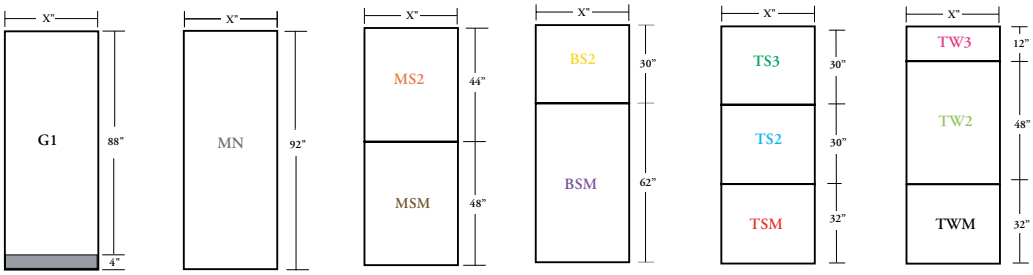
Tri-Segmented

specifying wall infill materials & widths

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

portrait

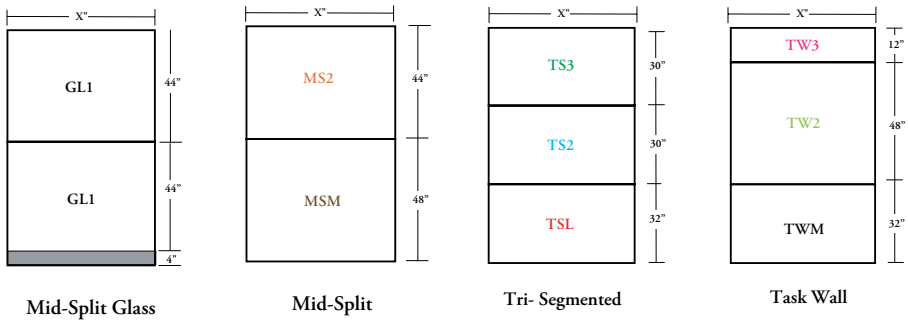
G1	Glass - Portrait
MN	Monolithic
MSM	Mid-Split - Monolithic
MS2	Mid-Split - lvl 2
BSM	Bi-Segmented - Monolithic
BS2	Bi-Segmented - lvl 2
TSM	Tri-segmented - Monolithic
TS2	Tri-segmented - lvl 2
TS3	Tri-Segmented - lvl 3
TWM	Task Wall - Monolithic
TW2	Task Wall - lvl 2
TW3	Task Wall - lvl 3



	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

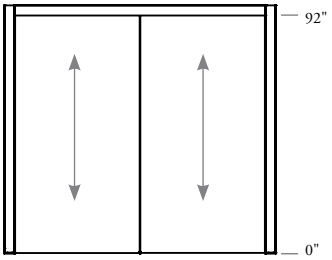


	G1	MSM	MS2	TWM	TS2	TS3	TWM	TW2	TW3
Glass	12-96"	N/A	12-96"	N/A	12-96"	12-96"	N/A	12-96"	12-96"
Solid	N/A	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"
Fabric Wrapped	N/A	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"	12-120"
Acoustic Tackable	N/A	N/A	12-120"	N/A	12-120"	N/A	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

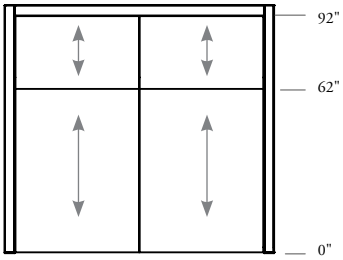
infills, wall fascias fabric finishes

The chart outlines the fabric direction for each fascia.

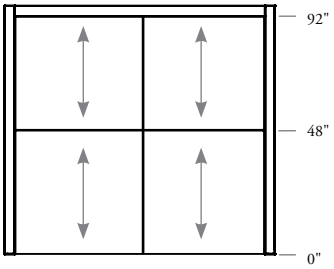
portrait



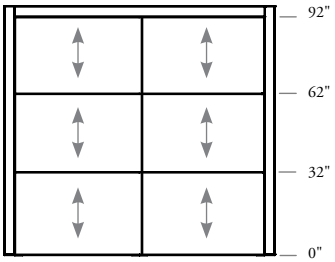
Monolithic



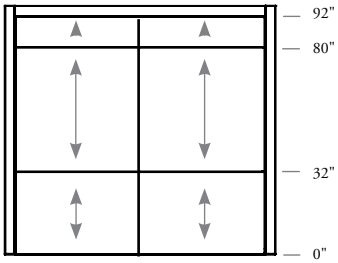
Bi-Segmented



Mid-Split

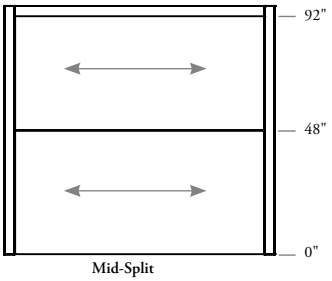


Tri-Segmented

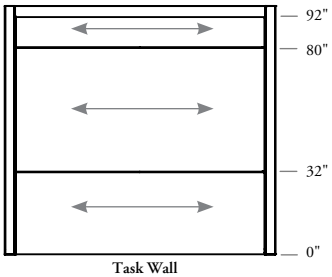


Task Wall

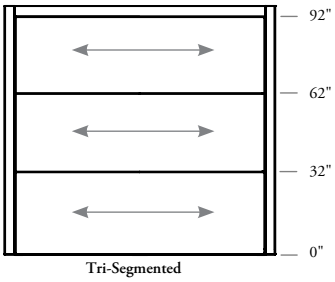
landscape



Mid-Split



Task Wall



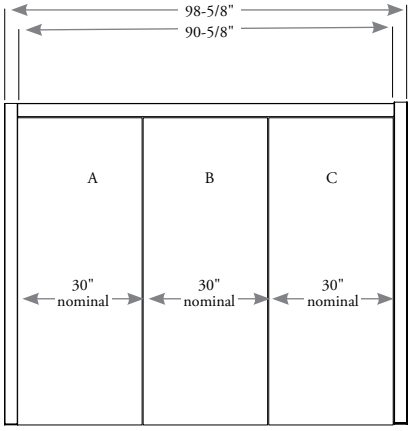
Tri-Segmented

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.

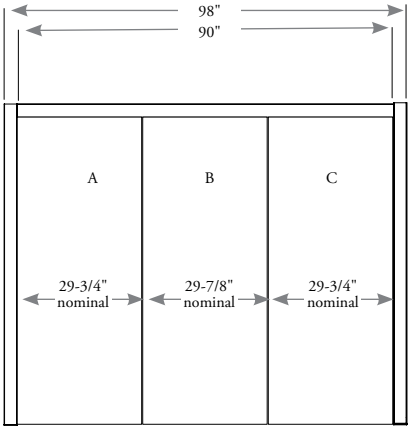


Refer to the chart to calculate the beam length based on chosen quantity and the chosen infill widths.

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

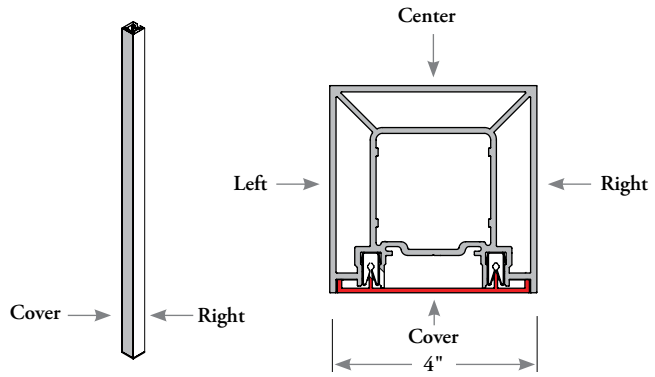
Depending on the chosen configuration the post will need to be selected based on the application

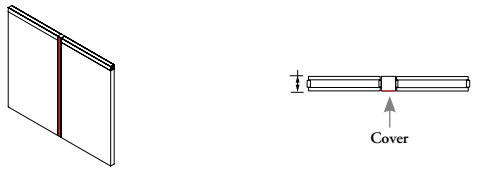
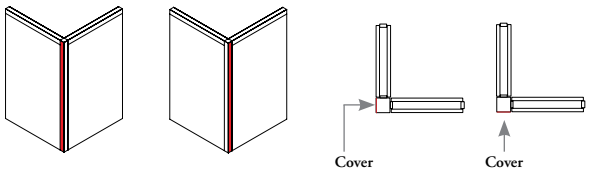
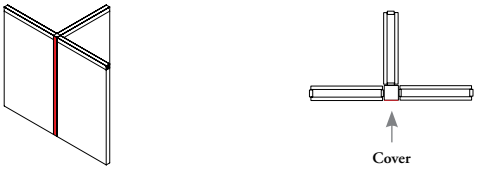
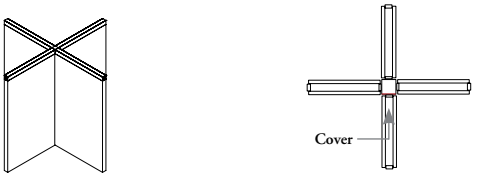
standard post

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 .

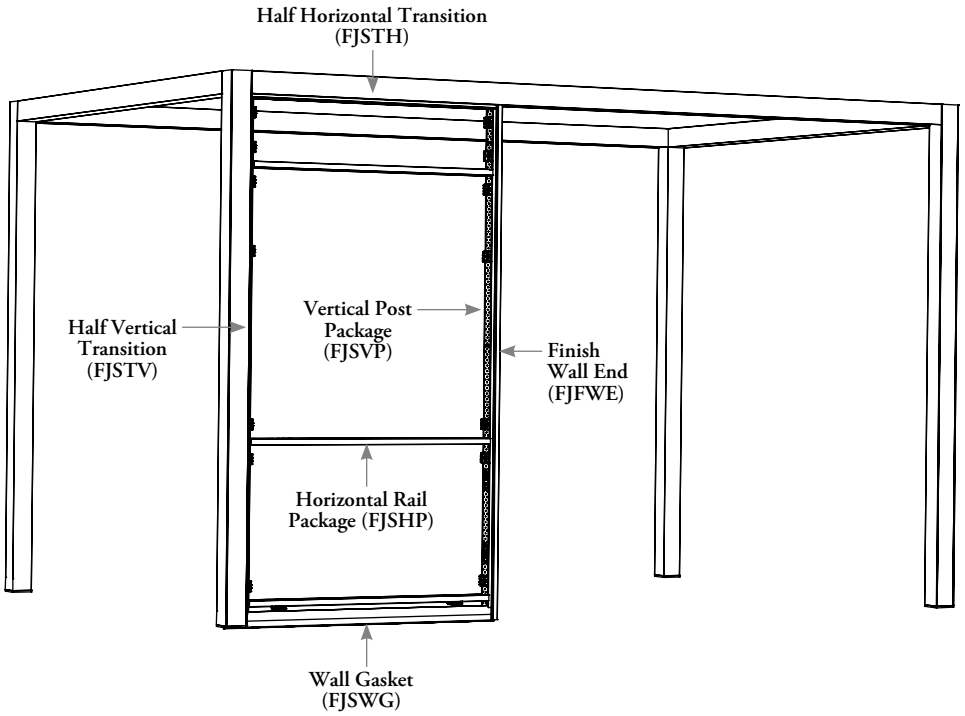
• Post cover side is marked with the red line to identify post orientation

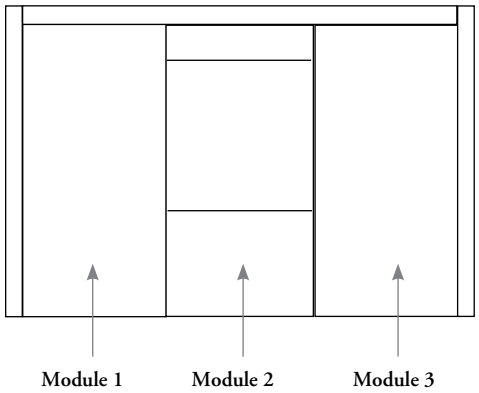


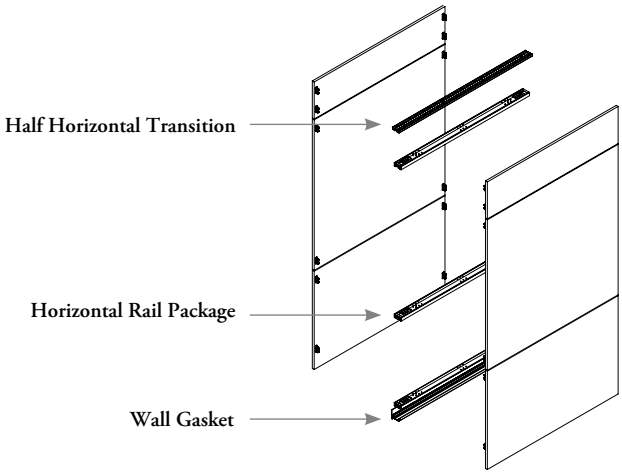
	✓	Walls and glass infills can be placed on the left, right sides of an inline post.
	✓	Walls and glass infills can be placed on the left and center sides of a two-way left hand post. Walls and glass infills can be placed on the right and center sides of a two-way right hand post.
	✓	Walls and glass infills 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.







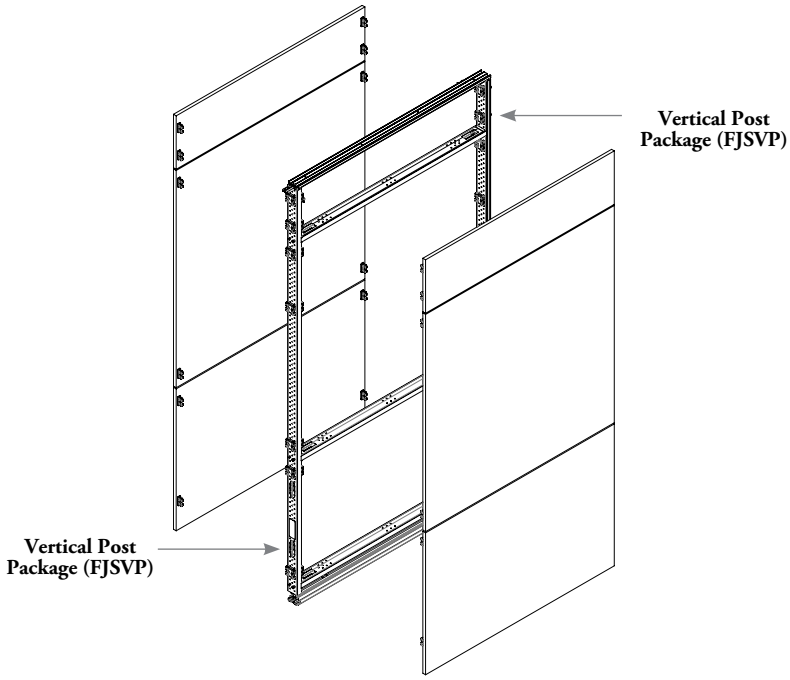
Horizontal frame components are specified per module to coordinate with the chosen Fascia elevations.
- Horizontal Rail Package (FJSHP)
- Half Horizontal Transition (FJSTH)
- Wall Gasket (FJSWG) (one piece 120")

(module #2 example shown above)

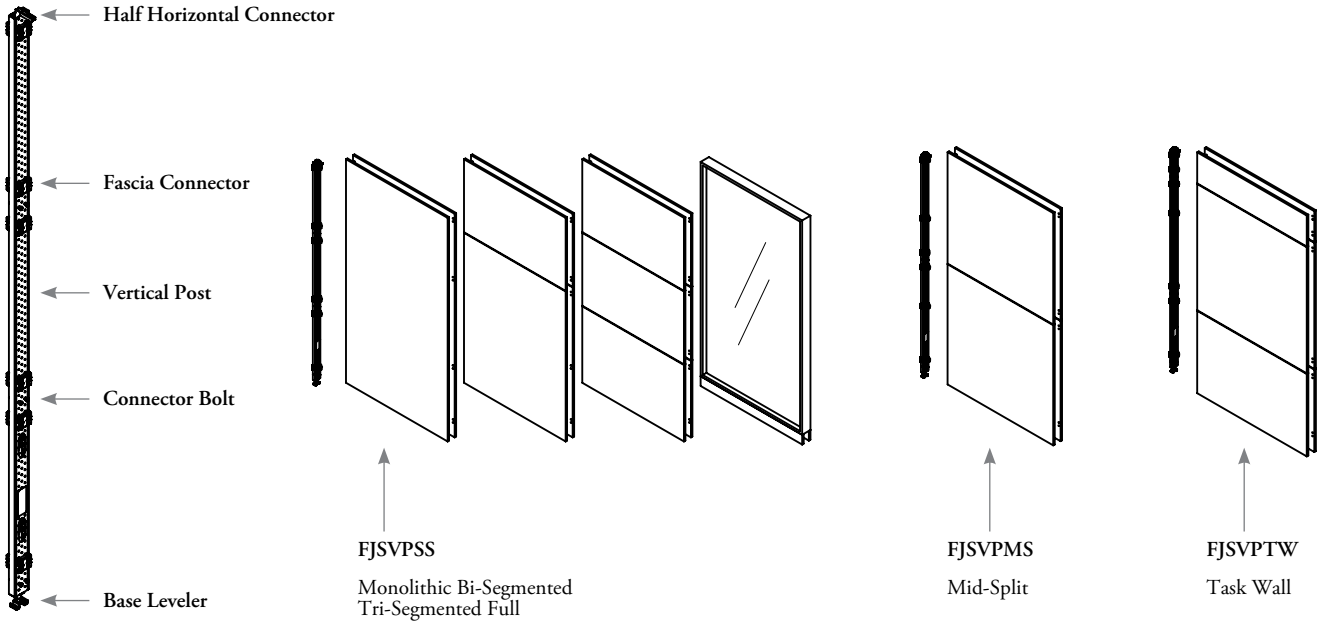
wall infill frame components overview (continued)

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.

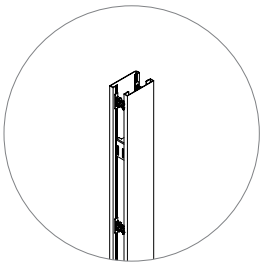


Vertical Post Package (FJSVP)



frame kit & components infill, wall fascias basics

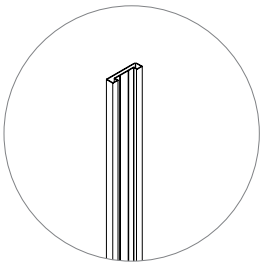
The infill frame kits and components consist of the following components.



Aluminum Fascia Kit (FJFPAK)

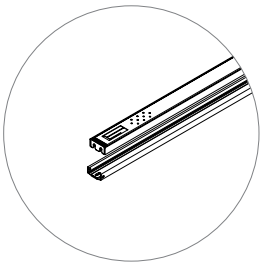
- A routing path around for up to four conduit feeds (3/4" diameter)
- Electrical Cutout Style:
  - Solid
  - 42" Vertical Height

Finishes: Painted



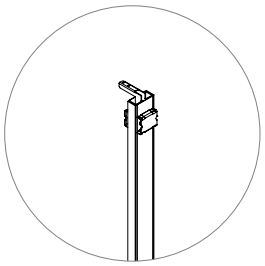
Finish Wall End (FJFWE)

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



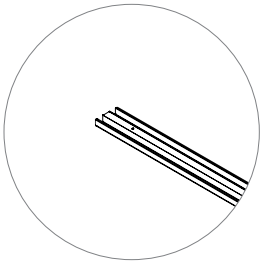
Horizontal Rail Package (FJSHP)

- 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)



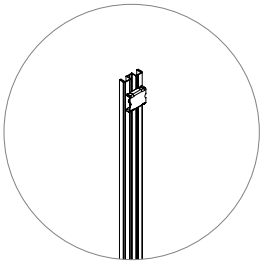
Vertical Post Package (FJSVP

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



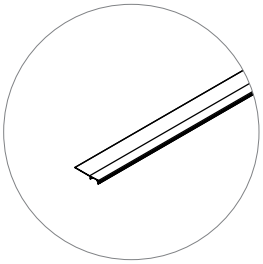
Half Horizontal Transition (FJSTH)

- 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 provide fascia support
- Height: 92"
- Includes fascia clips



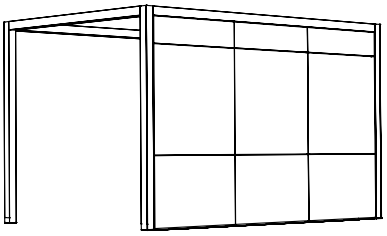
Wall Gasket (FJSWG)

- 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

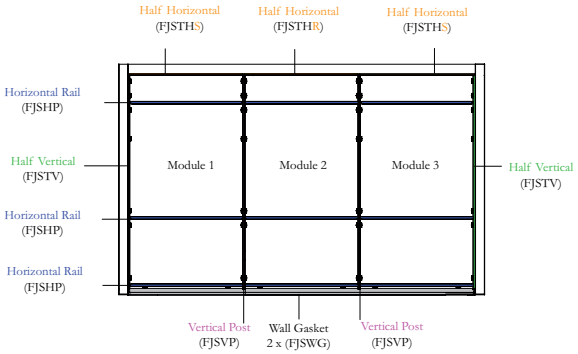
planning with infill, wall fascias frame components

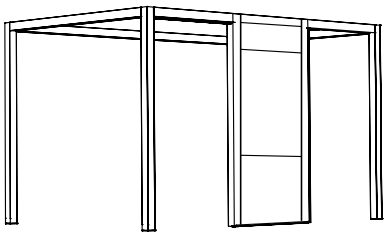
The number and type of frame components varies depending on the module positioning.

- 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)

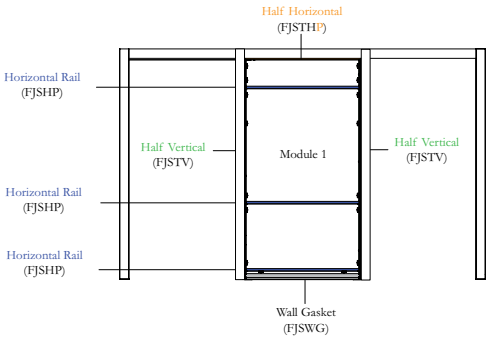


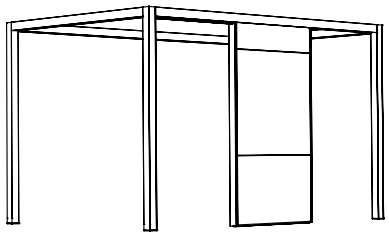
Infills, Full Wall



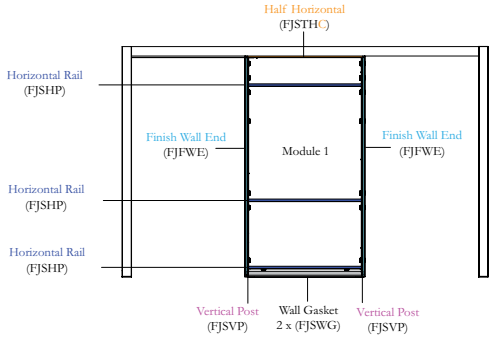


Infills, Single Post to Post

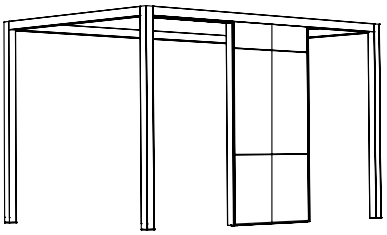




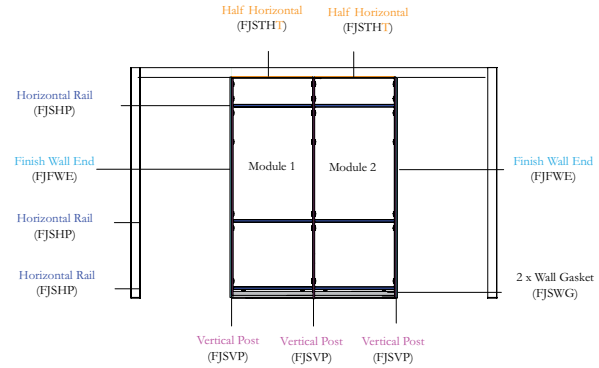
Infills, Partial Wall - Centered

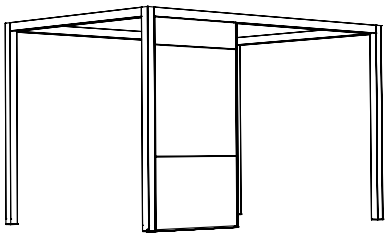


planning with infill, wall fascias frame components (continued)

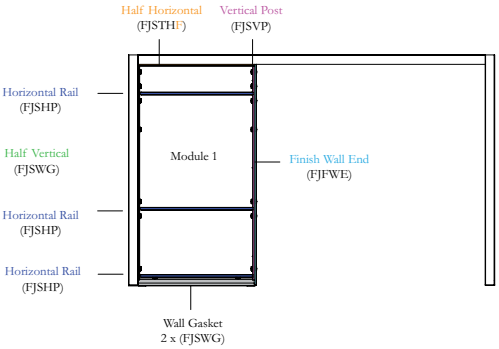


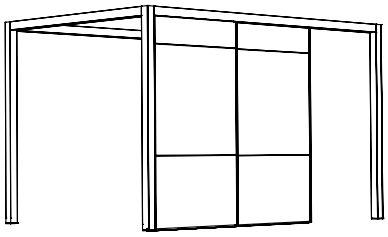
Infills, Partial Wall - Centered
(two or more modules)



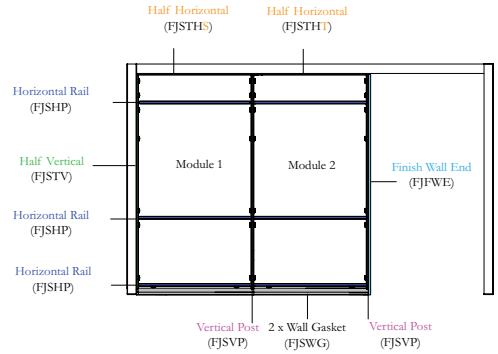


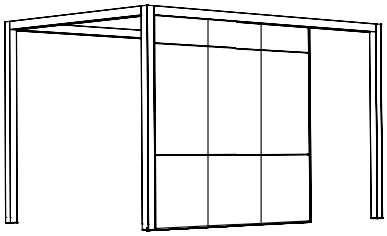
Infills, Partial Wall - Left/Right Justified



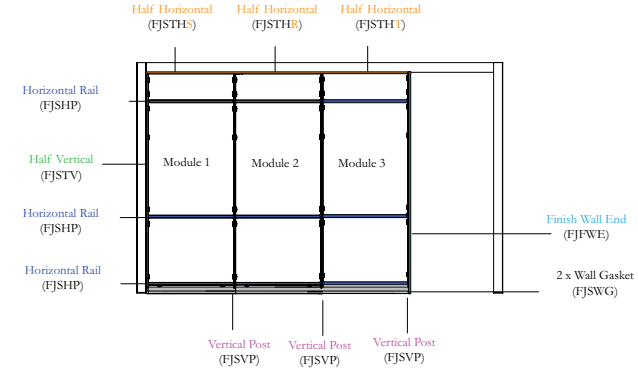


Infills, Partial Wall - Left/Right Justified
(two modules)



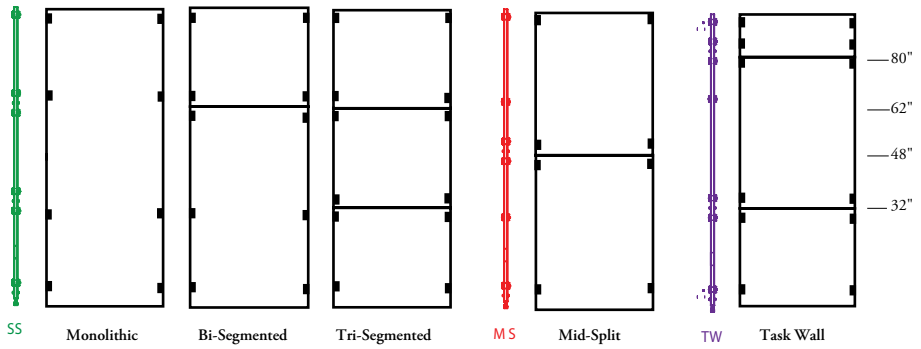


Infills, Partial Wall - Left/Right Justified
(three or more modules)

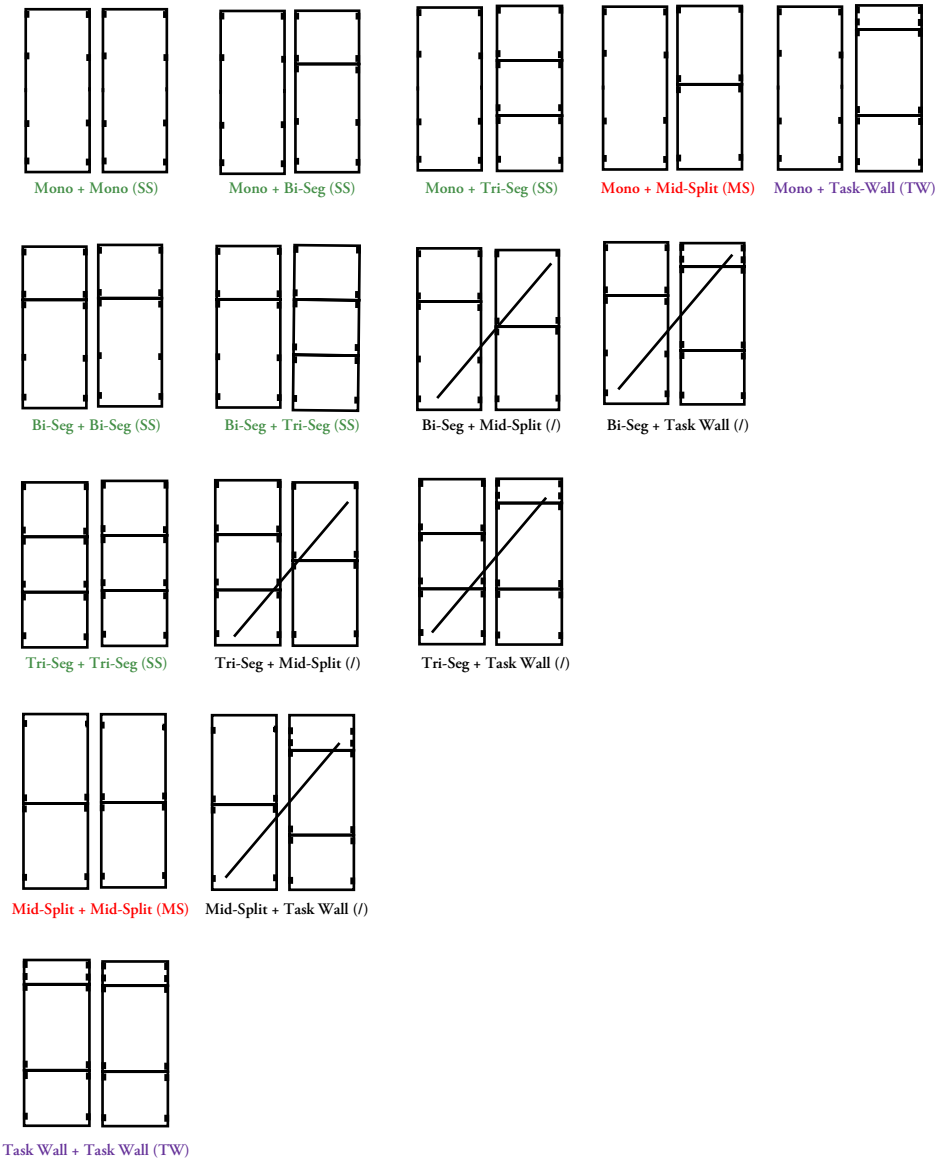


planning with vertical posts

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.

Adjacent Wall Module: Inner and Outer Elevations	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
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

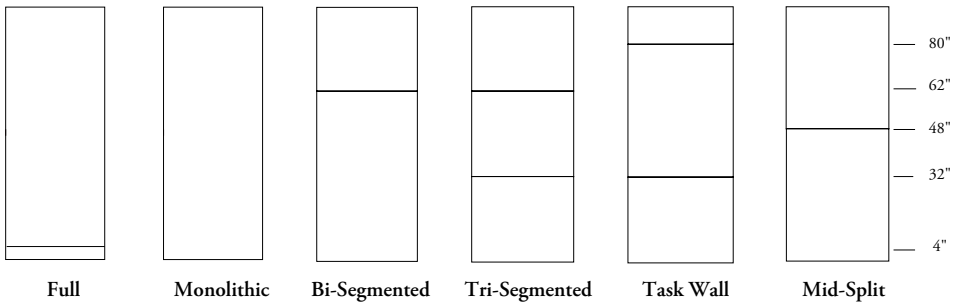
planning with horizontal posts

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

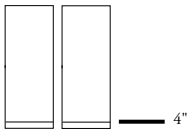
- Minimum one horizontal per panel
- One horizontal per reveal line

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



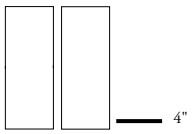
Example Codes

Standard Rail (FJSHP_ _ _ _SNNNN)



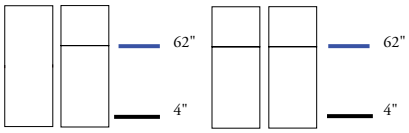
Full + Full

Standard Rail (FJSHP_ _ _ _SNNNN)



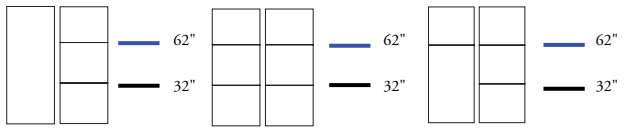
Mono + Mono

Standard Rail (FJSHP_ _ _ _SNNSN)
Standard Rail + Functional Rail (FJSHP_ _ _ _SNNFN)



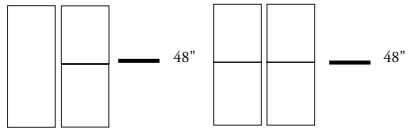
Mono + Bi-Seg Bi-Seg + Bi-Seg

Standard Rail (FJSHP_ _ _ _NSNSN)
Standard Rail + Functional Rail (FJSHP_ _ _ _NSNFN)



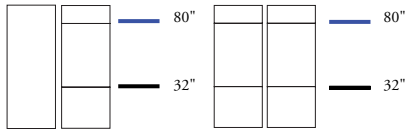
Mono + Tri-Seg Tri-Seg + Tri-Seg Bi-Seg + Tri-Seg

Standard Rail (FJSHP_ _ _ _NNSNN)



Mono + Mid-Split Mid-Split + Mid-Split

Standard Rail (FJSHP_ _ _ _NSNNS)
Standard Rail + Functional Rail (FJSHP_ _ _ _NSNNF)



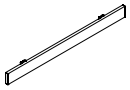
Mono + Task Wall Task Wall + Task Wall

Legend

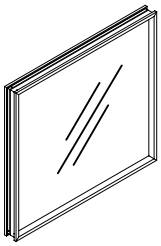
- Standard Rail (S)
- Standard Rail (S) or Functional Rail (F)

infill, wall fascias glass basics

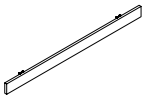
The infill wall glass fascias consist of the following components.



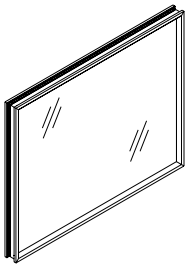
Portrait Base Fascia (FJFPB)
- Height: 4"
- Width: 12" - 48" (1/8" increments)
- Finish:
  - Laminate
  - Flintwood
  - Select Paint Colors



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



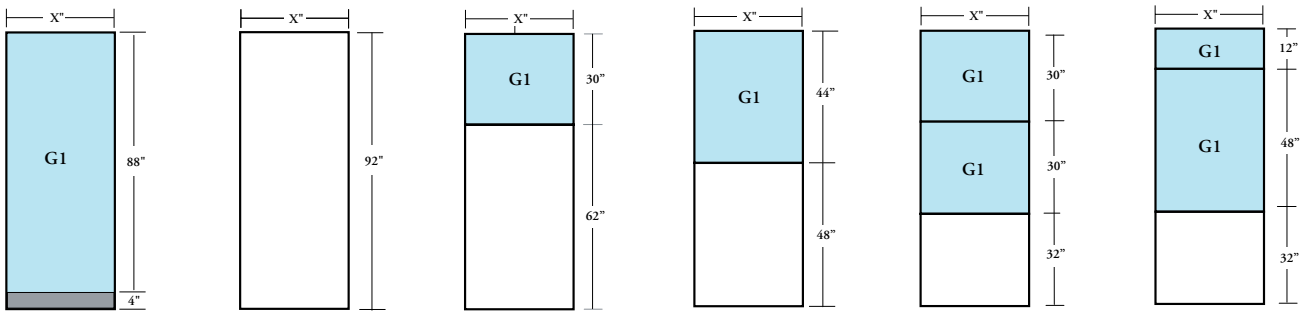
Landscape Glass Fascia - Single Centered, Square Corner (FJFLGCS)
- Height: 12", 30", 44", 48"
- Width: 12" - 96" (1/8" increments)
- Frame Finish:
  - Select Paint Colors
- Glass Type:
  - Tempered
  - Laminate
- Glass Finish:
  - Standard
  - Specialty

planning with infill, wall fascias with glass elevations

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

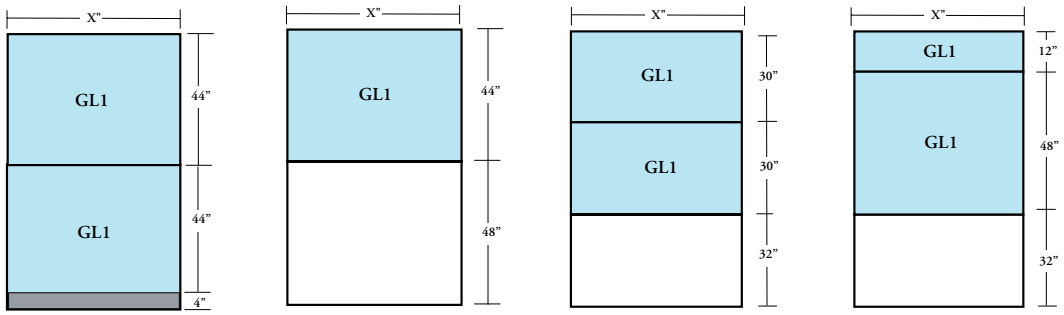
Possible glass locations are shown highlighted in blue and marked G1 or GL1.

portrait



Full **Monolithic** **Bi-Segmented** **Mid-Split** **Tri-Segmented** **Task Wall**

landscape



Mid-Split Glass **Mid-Split** **Tri-Segmented** **Task Wall**

infill, glass

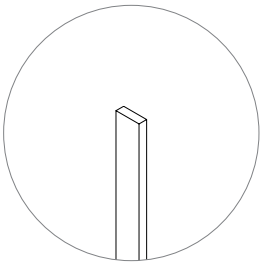
infill, glass

infill, glass basics

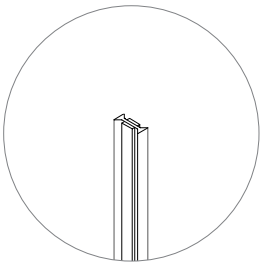
The infill glass fascias consist of the following components.

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

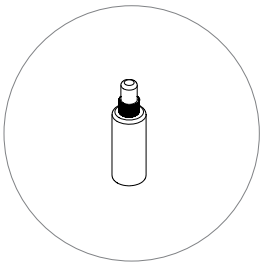
Glass Infill - 12mm Thickness (FJHGB)
- 12mm monolithic glass fascia



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



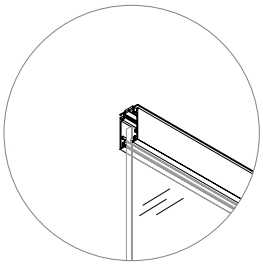
Glass Infill Connector Clear Plastic (FJHCP)
- Available for 10mm and 12mm glass



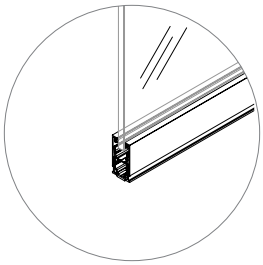
Activator Kit (FCAK)
- Activator Kit used for glass to glass connectors to promote stronger bond

infill, glass basics (continued)

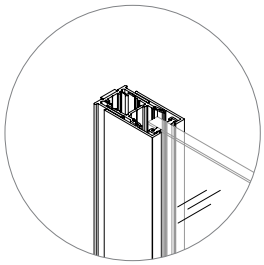
The infill glass fascias consist of the following components.



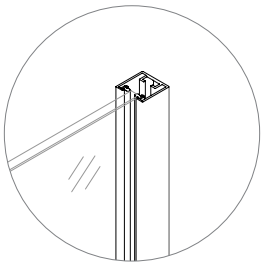
Glass Infill Horizontal Ceiling Frame (FJHCF)
- Fixed ceiling frame for single center glass infill
- Lengths: 36", 84", 121"
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



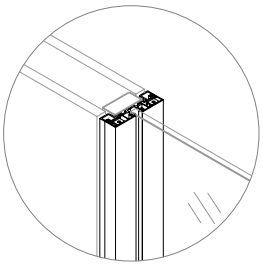
Glass Infill Horizontal Base Frame (FJHBF)
- Adjustable base frame for single center glass infill
- Lengths: 36", 84", 121"
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm



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

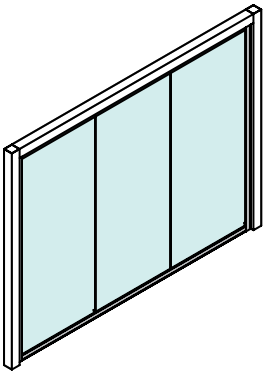


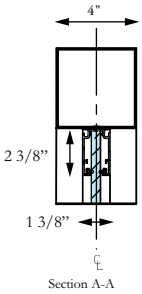
Glass Infill to Wall Fascia Transition (FJHTFI)
- Inline transition for glass infills to wall infills
- Cut to size on site
- Finish: Painted
- Glass Thickness: 10mm or 12mm

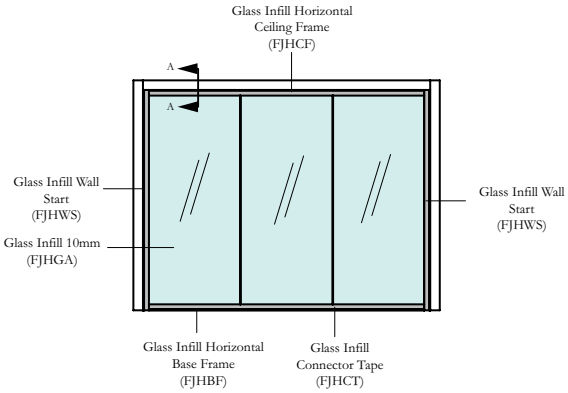
planning with infill, glass

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

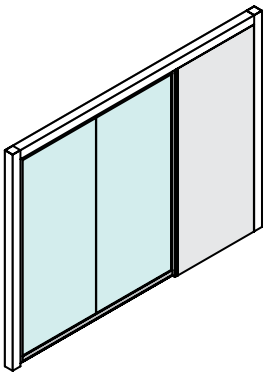
- Glass Infills consists of the following discrete elements:
  - Horizontal Frames (Base and Ceiling) - cut to length on site
  - Verticals (Wall Start and Wall Ends)- cut to length on site
  - Glass Fascias 10mm or 12 mm thicknesses
- The following outline the option for placing Glass Infills between 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

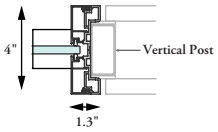




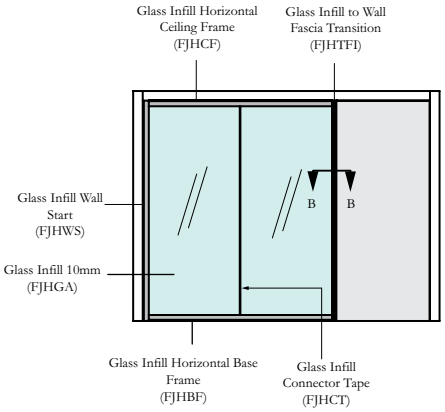


Full Wall



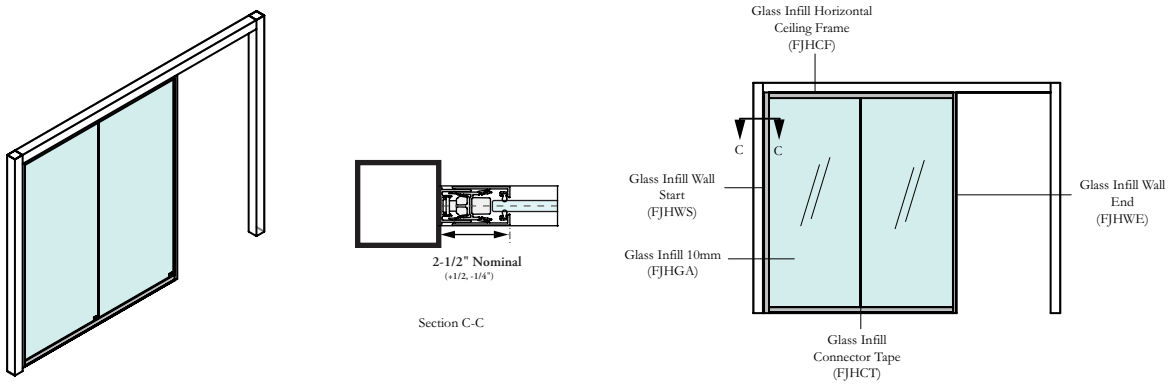


Section B-B

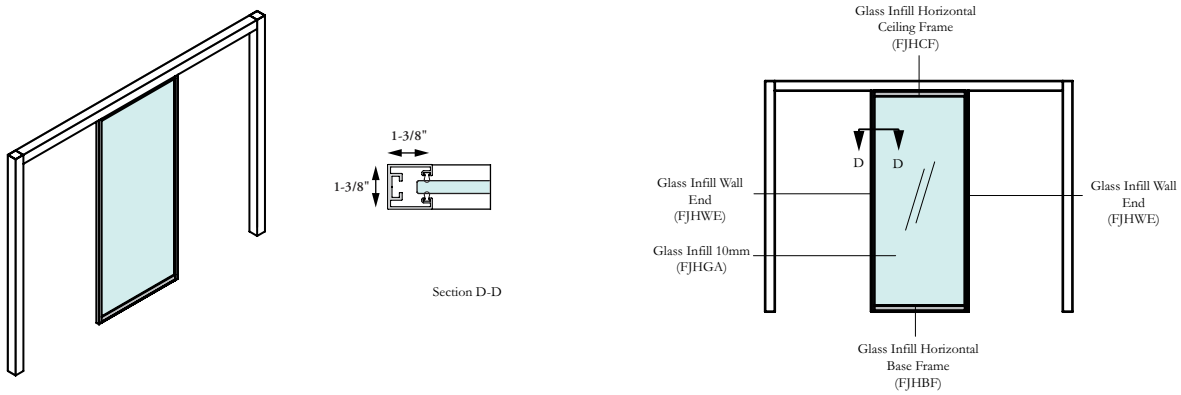


Full Wall

planning with infill, glass (continued)



Partial Wall - Left Right Justified



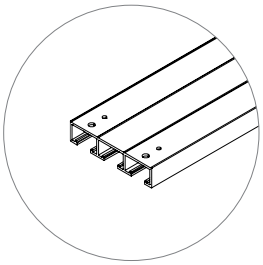
Partial Wall - Centered

screens

screens

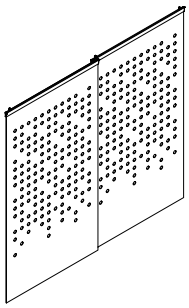
screens basics

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
- Felt Finish:
  - Silver Grey
  - Charcoal Grey
- Felt Holder Finish:
  - Foundation
  - Mica
  - Accent

planning with screens

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

Full Coverage Three Panels

Full Coverage Two Panels

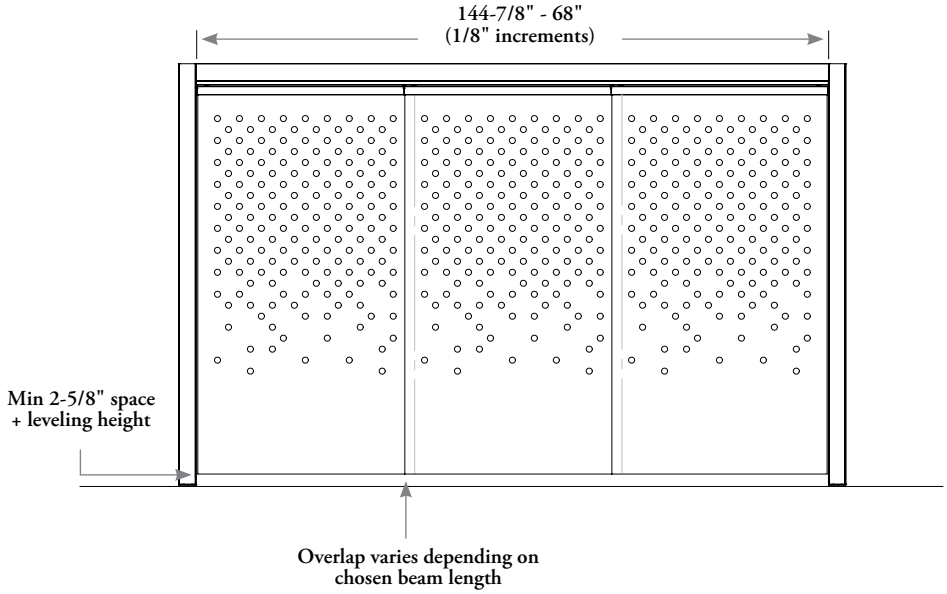
Partial Coverage Two Panels

Partial Coverage One Panels

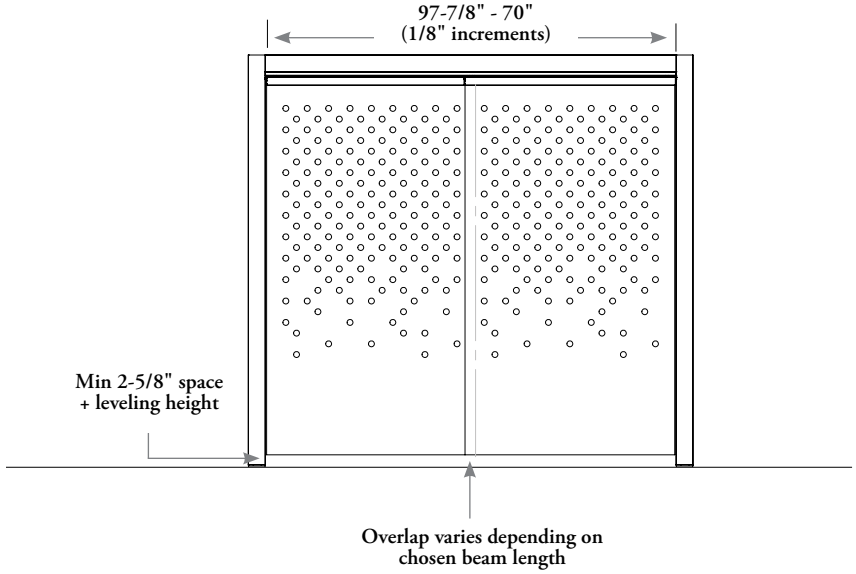
planning with screens (continued)

The following outlines the size range for screens.

full coverage three panel

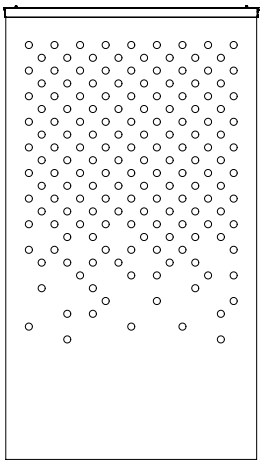


full coverage two panel

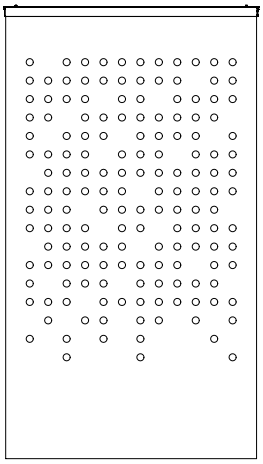


planning with screens (continued)

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



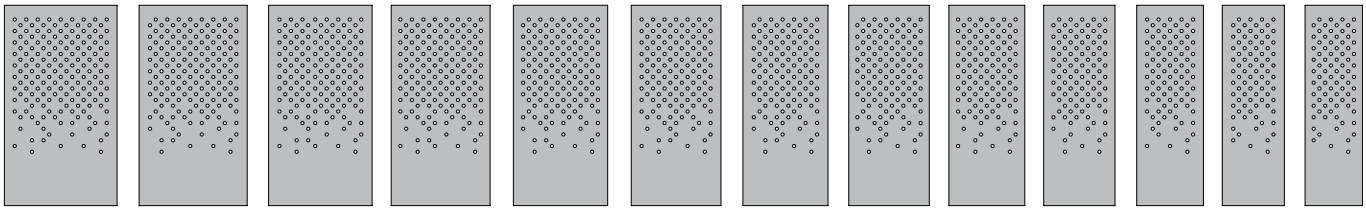
45˚ Pattern



90˚ Pattern

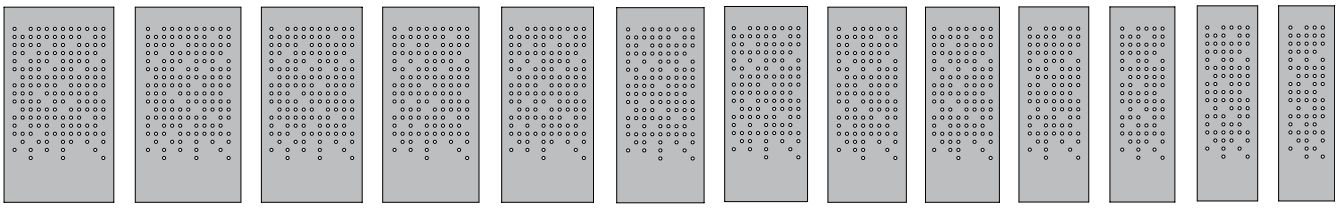
The screens are available in 2" increments from 25" up to 49". Below shows the hole pattern placement for each size.

45˚ Hole



49" 47" 45" 43" 41" 39" 37" 35" 33" 31" 29" 27" 25"

90˚ Hole

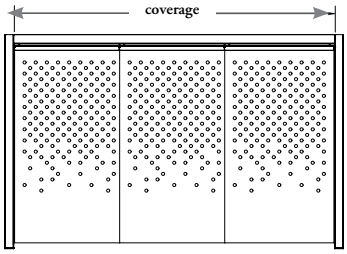


49" 47" 45" 43" 41" 39" 37" 35" 33" 31" 29" 27" 25"

planning with screens (continued)

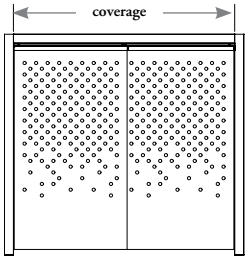
The charts below outline the options for configuring the screens and the corresponding number of panels and their width.

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

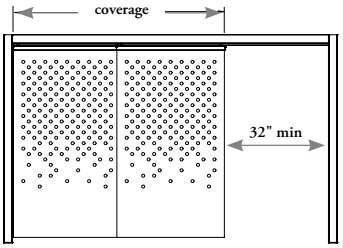
Coverage Range(Post to Post)	Panel Width
68" - 73-7/8"	25"
74" - 79-7/8"	27"
80" - 85-7/8"	29"
86" - 91-7/8"	31"
92" - 97-7/8"	33"
98" - 103-7/8"	35"
104" - 109-7/8"	37"
110" - 115-7/8"	39"
116" - 121-7/8"	41"
122" - 127-7/8"	43"
128" - 133-7/8"	45"
134" - 139-7/8"	47"
140" - 144-7/8"	49"



Full Coverage Two Panels

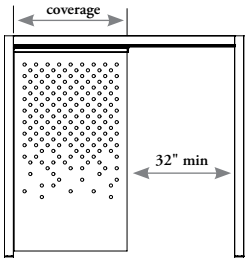
Coverage Range(Post to Post)	Panel Width
70" - 73-7/8"	37"
74" - 77-7/8"	39"
78" - 81-7/8"	41"
82" - 85-7/8"	43"
86" - 89-7/8"	45"
90" - 93-7/8"	47"
94" - 97-7/8"	49"

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

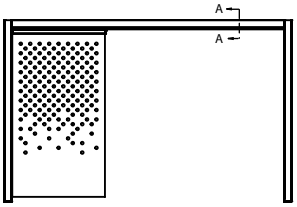
Coverage	Panel Width	Min Recommended Beam Length
25"	25"	67-3/8" *
27"	27"	67-3/8" *
29"	29"	67-3/8" *
31"	31"	67-3/8" *
33"	33"	67-3/8" *
35"	35"	67-3/8"
37"	37"	69-3/8"
39"	39"	71-3/8"
41"	41"	73-3/8"
43"	43"	75-3/8"
45"	45"	77-3/8"
47"	47"	79-3/8"
49"	49"	81-3/8"

* beam size to accommodate min track length

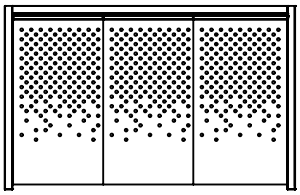
planning with screens (continued)

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

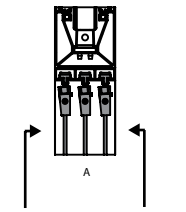
Full Coverage Three Panels



Open



Closed

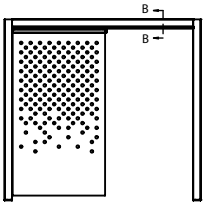


Inside Outside

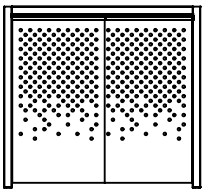
One panel occupies each of the following tracks:

- Outside
- Center
- Inside

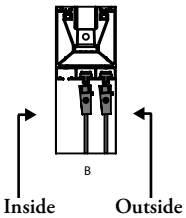
Full Coverage Two Panels



Open



Closed

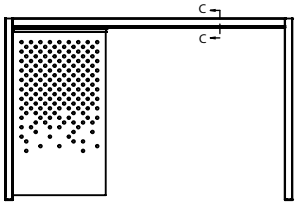


Inside Outside

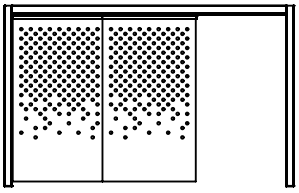
One panel occupies each of the following tracks:

- Outside and Center or
- Inside and Center

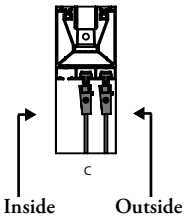
Partial Coverage Two Panels



Open



Closed

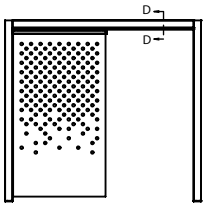


Inside Outside

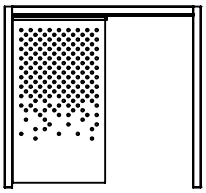
One panel occupies each of the following tracks:

- Outside and Center or
- Inside and Center

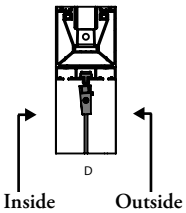
Partial Coverage One Panels



Open



Closed



Inside Outside

One panel occupies each of the following track:

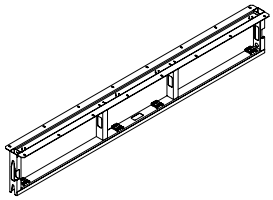
- Outside or
- Center or
- Inside

worksurfaces

worksurfaces

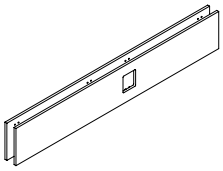
worksurface basics

Worksurfaces consist of the following components.



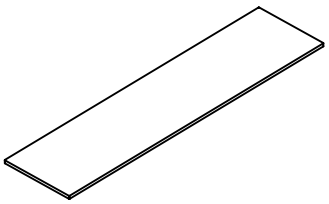
Worksurface Framework Kit (FJTWFK)

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



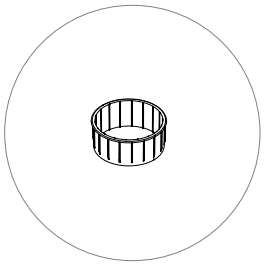
Fascia Package for Bar Height Worksurface (FJTLFP)

- 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)

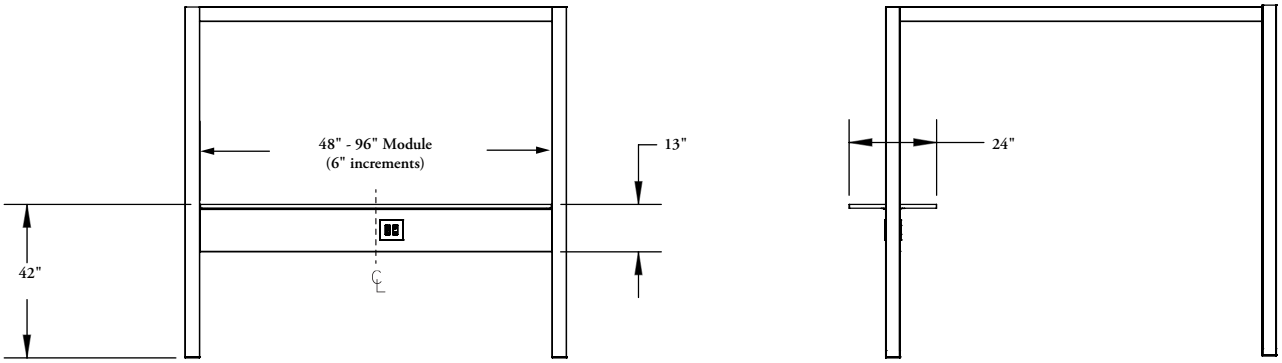
- Round
- Finish:
  - Platinum

planning with worksurfaces

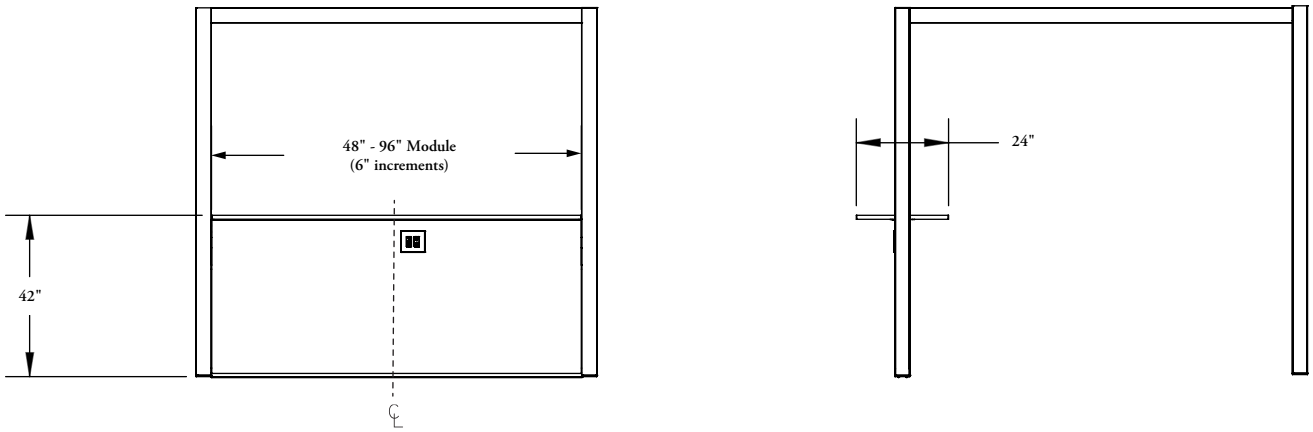
The following should be considered when planning with worksurfaces.

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

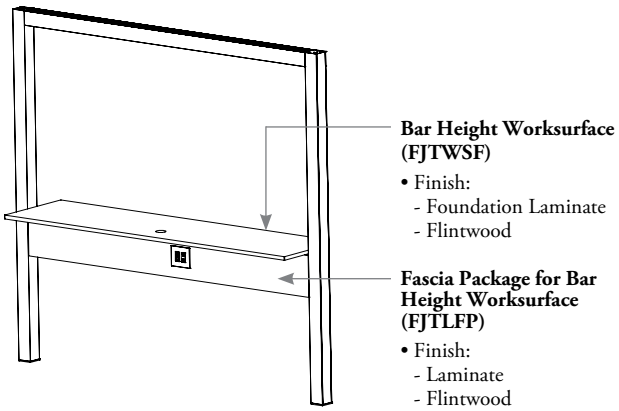
• Worksurface module drives Structural Beam Kit (FJSBK) width

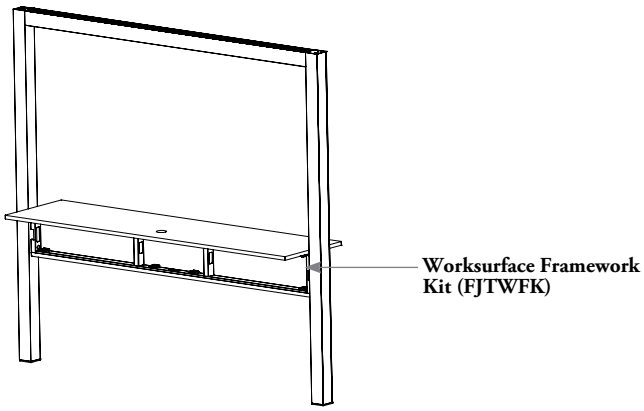
Module Width	Worksurface Framework Kit (FJTWFK) Width	Bar Height Worksurface (FJTWSF) Width	Fascia Package (FJTLFP) Width	Structural Beam Kit (FJSBK) Width
48"	48-3/8"	48-3/8"	48-3/8"	48-3/8"
54"	54-1/2"	54-1/2"	54-1/2"	54-1/2"
60"	60-1/2"	60-1/2"	60-1/2"	60-1/2"
66"	66-1/2"	66-1/2"	66-1/2"	66-1/2"
72"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

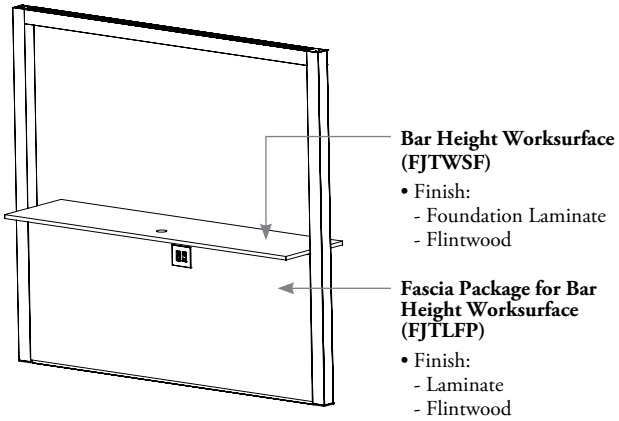
The following shows two options for modesty panels below the worksurface.

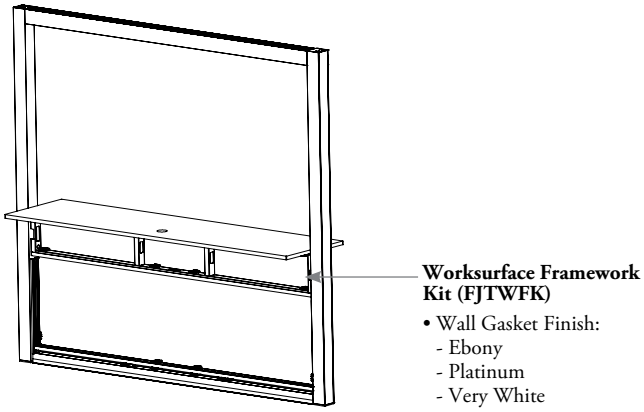
12" partial modesty





full modesty

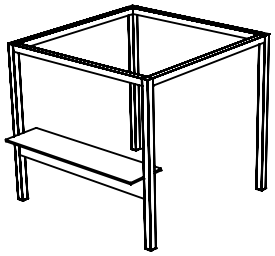


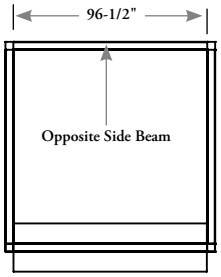


planning with worksurfaces, posts & beams

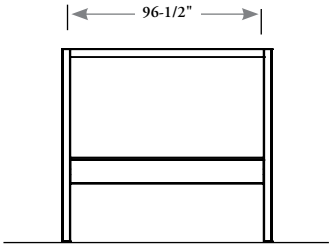
The following shows the placement options for a worksurface in a frame post and beam.

post to post





Plan View

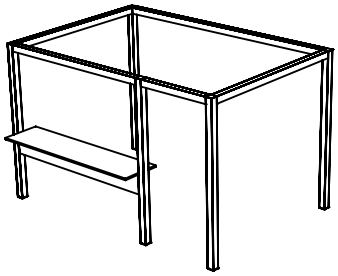


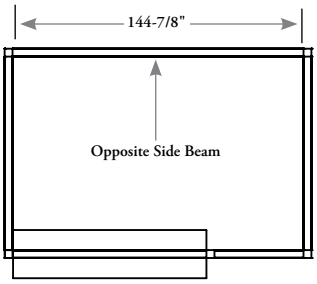
Elevation View

The maximum dimensional width of a worksurface from post to post is 96-1/2".

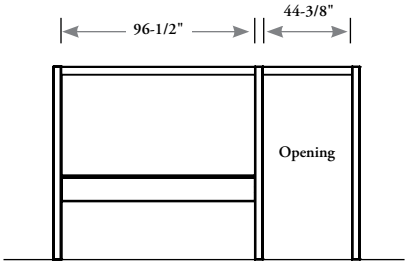
For the opposite side beam to be continuous it must equal the dimensional width of the worksurface.

post to auxiliary post





Plan View

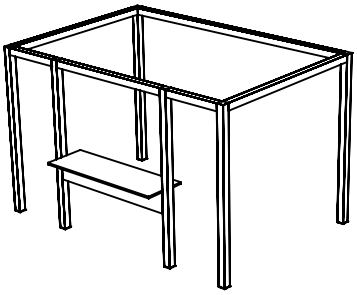


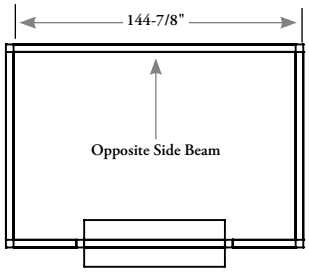
Elevation View

The maximum dimensional width of a worksurface from post to post is 96-1/2".

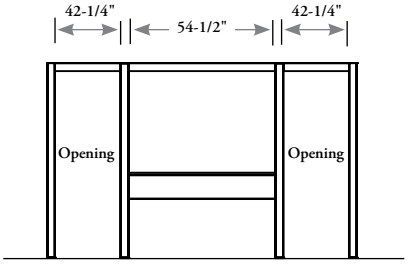
For the opposite side beam to be continuous it must equal the dimensional width of the worksurface plus the opening width which can be max 44-3/8", plus the post width 4".

auxiliary post to auxiliary post





Plan View



Elevation View

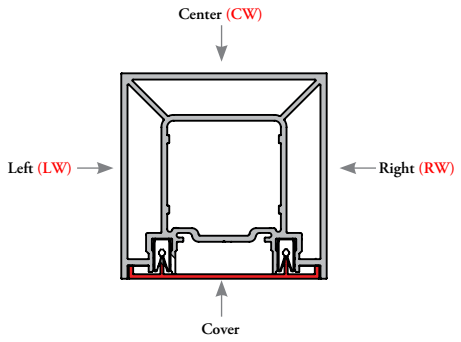
For the opposite side beam to be continuous the dimensional maximum width of the worksurface from auxiliary post to auxiliary post is 54-1/2".

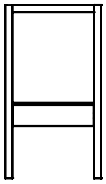
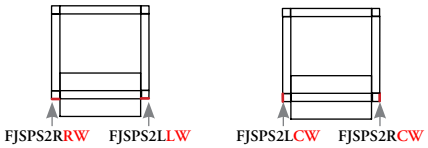
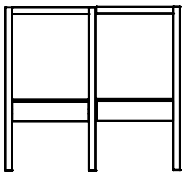
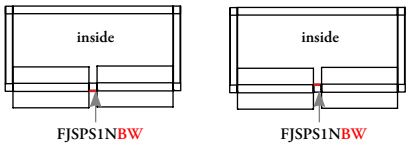
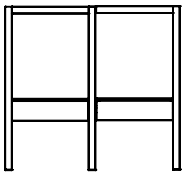
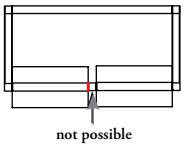
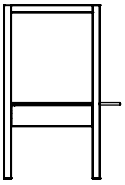
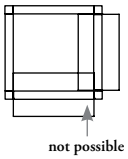
planning with worksurfaces, posts & beams (continued)

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)

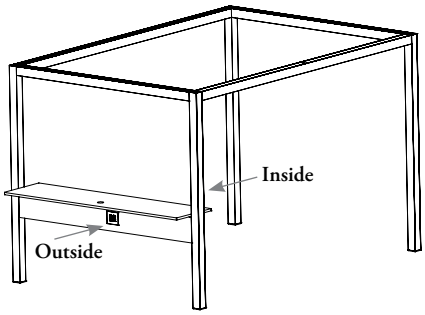


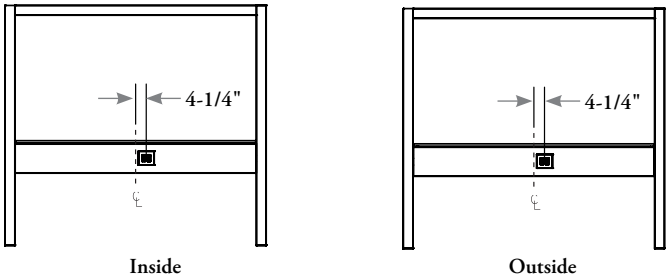
Elevation View	Plan View		
		✓	Worksurfaces can be placed on the left or right side of a post. or Worksurfaces can be placed on the center of a post.
		✓	Worksurfaces must be placed simultaneously on a left and right hand side of a post when between two worksurfaces. The non-handed cover can be on the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

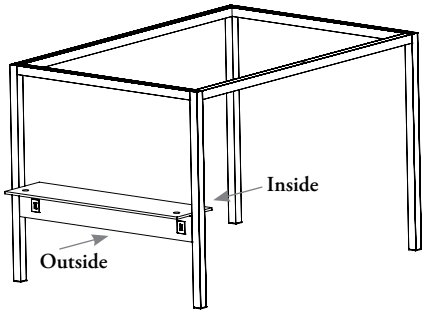
Applies to partial and full modesty fascias.

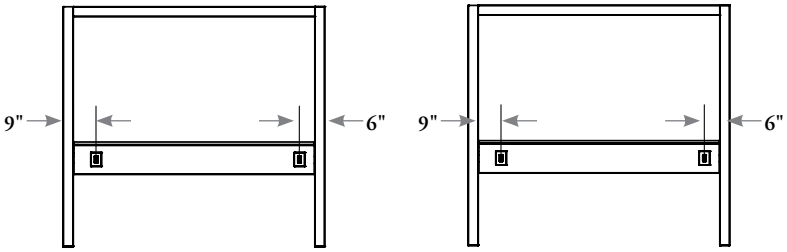




Centered Cutout
- Single sided or double sided
- Outlets are always double outlets

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.

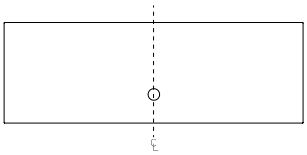




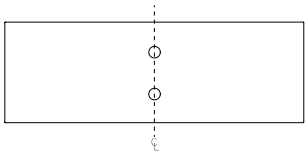
Two Offset Cutouts
- Single sided or double sided
- Outlets are always single outlets

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

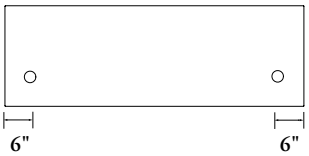
When adding worksurface cut outs the locations should match the cut out locations in the worksurface fascias. See electrics section for wire routing.



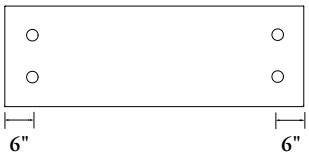
Single-Sided Center Cut Out (N1)



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).

lighting, electrics & communications

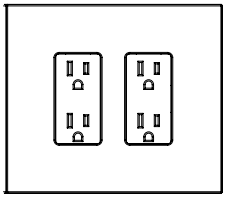
lighting, electrics & communications

understanding lighting, electrics & communications

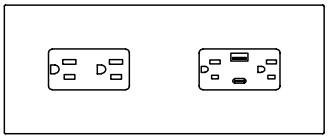
There are two methods of supplying power and communications in WithIn, each method functions differently. The following chart will help you select the appropriate solution.

Power Data Electrics

Vertical Outlets (15" AFF)



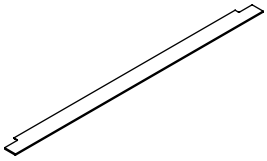
Horizontal Outlets (35" AFF)



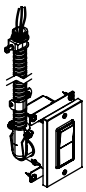
Outlets
- Screwless face plates
- Self contained unit for an homogeneous, clean look
- Data and power in one box
- Single face plate for entire box
- Data jacks/faceplates are not included on power data modules
- Wire systems 4B, 5D, 7G, 8T, 8K
- 120 volts - 15 and 20 amp

Hardwire Electrics

Lights (62" or 80" AFF)



Light Switch (42" AFF recommended)

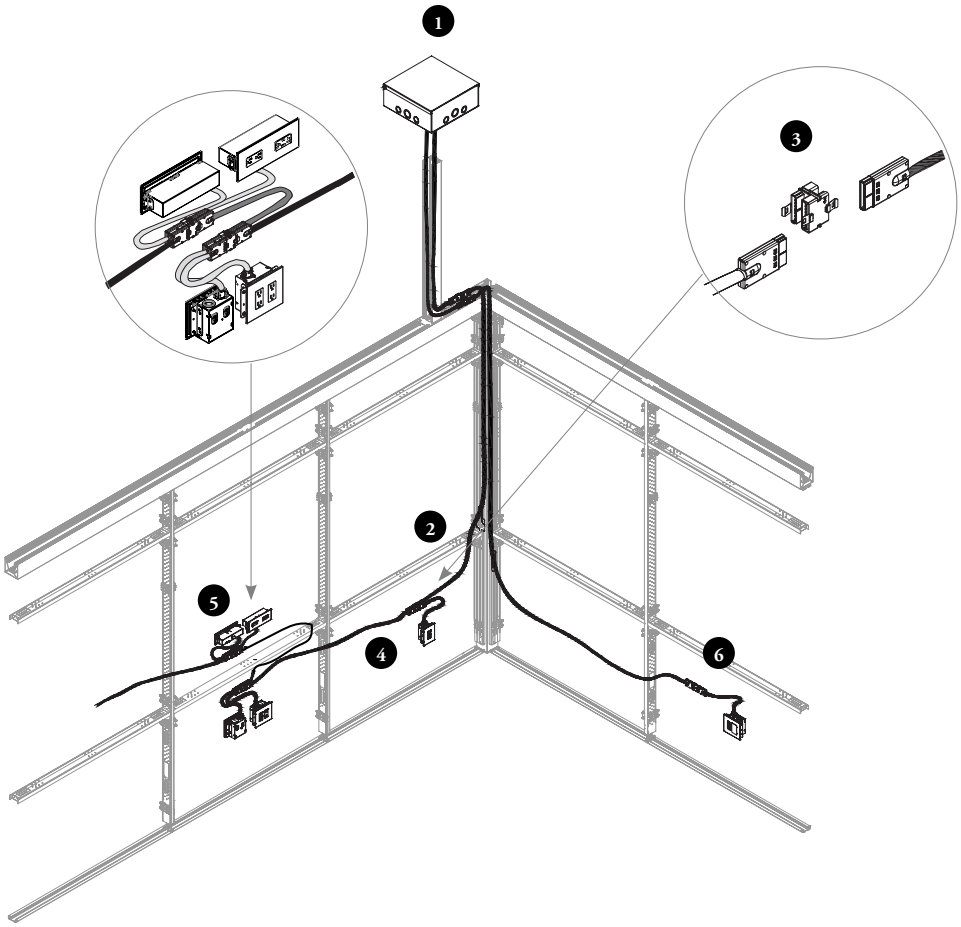


Lights
- Light are hardwire only and always routed interdependently of outlet and communications

Light Switch
- 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

power data electrics overview

WithIn Power Data electrics allow for maximum flexibility and simple reconfiguration

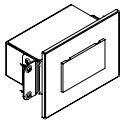


1. Power is provided to WithIn walls by a building junction box provided by others
2. Power Data **Starter Cable (EPDSCFJ)** - Connects to the building's junction box (by a certified electrician). Cables are fed from the ceiling or from access floors though cut outs in the ceiling or base channels to 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 (EPDICFJ)** to lengthen the infeed with a power harness when is end of run, single sided

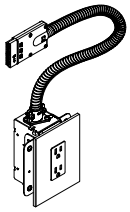
Power can be accessed through the use of power modules, which are mounted on Fascias at 15" height, or 35"AFF. That is below or above the worksurface respectively (standard cut out locations). Power Data Modules are mounted from behind the fascia by fastening to the fascia.

electrics basics

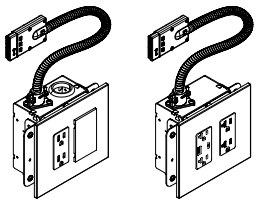
Power Data outlets consist of the following components.



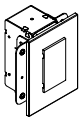
Power Data Horizontal Module - Communication (EPDHCFJ)



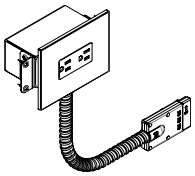
Power Data Vertical Module - Single (EPDMSFJ)



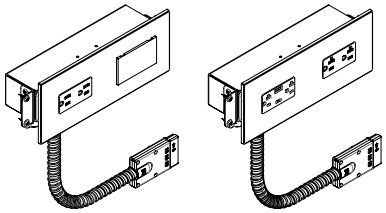
Power Data Vertical Module - Double (EPDMDFJ)



Power Data Vertical Module - Communication (EPDMCFJ)



Power Data Horizontal Module - Single (EPDHSFJ)



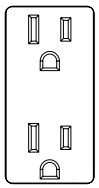
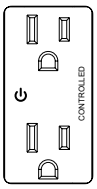
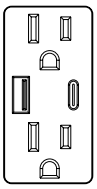
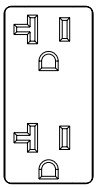
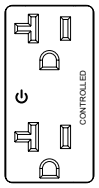
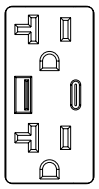
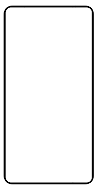
Power Data Horizontal Module - Double (EPDHDFJ)

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

	15 amp			20 amp			Data Openings
Receptacle outlets							
	Standard Outlet (S)	Controlled Outlet (D)	USB (A+C)* Outlet (U)	Standard Outlet (T)	Controlled Outlet (E)	USB (A+C)* Outlet (W)	Data Opening (0)

*USB (A+C)

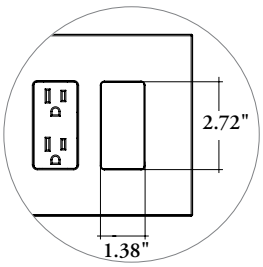
Cable compatibility: USB C
USB 2.0
USB 3.0

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.

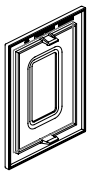
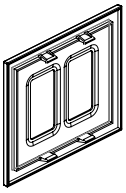
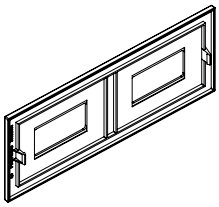
faceplate opening dimensions for data



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.

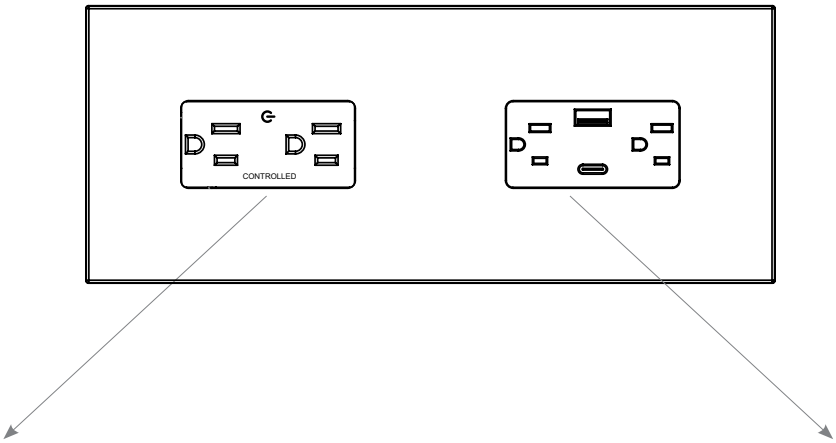
Description	Where Used	Overall Dimensions & Image
Single size faceplate for Horizontal and Vertical Power Data Module	EPDHCFJ EPDHSFJ EPDMCFJ EPDMSFJ	Width= 4.196 inches (107 mm) Height= 5.514 inches (140 mm) Thickness= 0.21 inches (5.40 mm) excluding snap tabs 
Double size faceplate for Vertical Power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



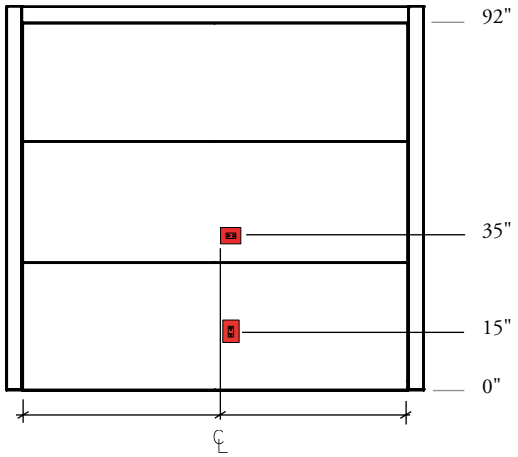
Shut-off controlled Outlet (Controlled receptacle):
Plug in:
- Displays/monitors
- Task lights
- Space heaters/Fans
- Printers
- Televisions
- Water fountains

Constant Power Outlet (Standard receptacle):
Plug in:
- Computer CPUs,
- Internet routers
- Devices which must always be on

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

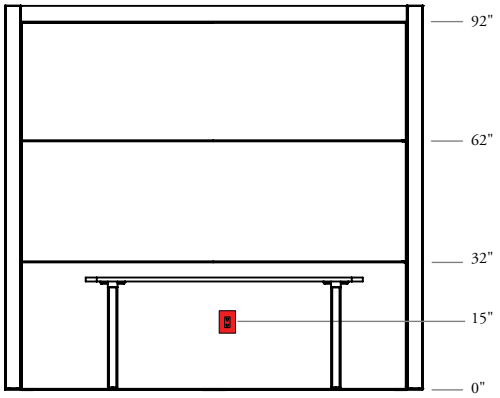
- Horizontal orientation only
- Power Data only

15" - Above Finish Floor Height

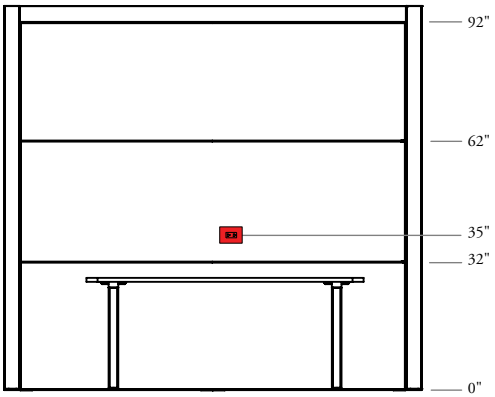
- Vertical orientation only
- Power Data only

planning with power/communication walls (continued)

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



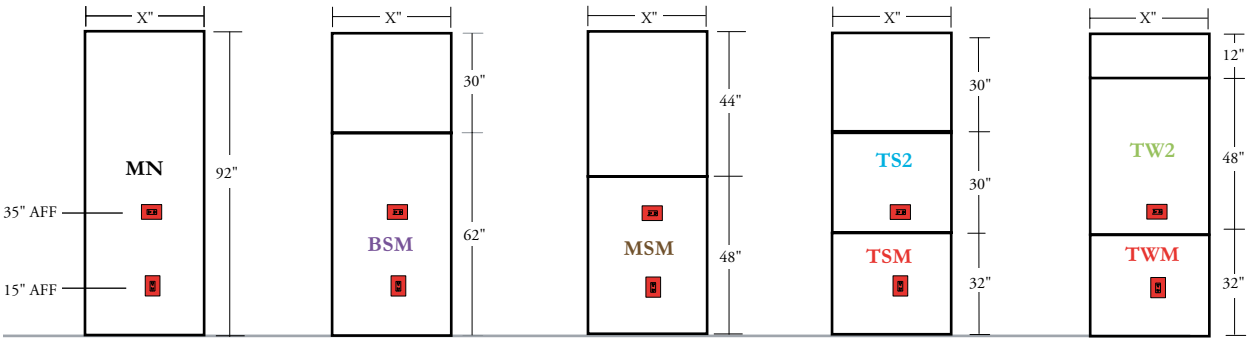
AFF 15" - Vertical Height



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.

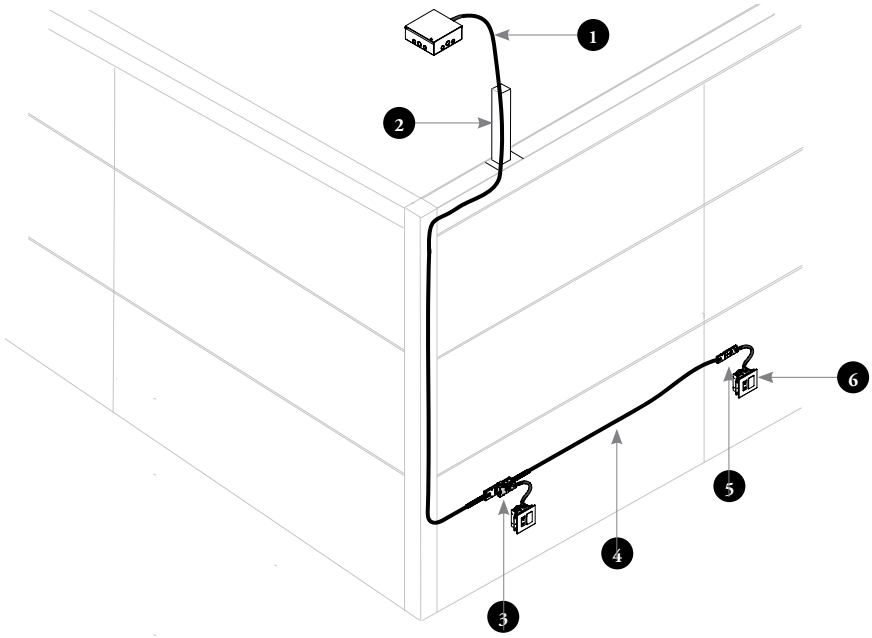
Each letter represents a different cut out style.

	Image Reference	Application Fascia	Cut Out Descriptions		Width Range Portrait	Width Range Landscape
No need for electrical access	1L	All	IL	No Cut Outs	12" - 48"	12" - 120"
15" AFF Height	SL, DL	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	FJ, GJ	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	LJ, MJ	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 if 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



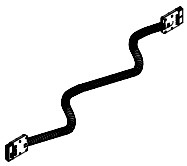
1. Power Data Starter Cable (EPDSCFJ)
2. Power Pole (EPQFJ)
3. Power Data Four-Way Splitter (EPDDBFJ)
4. Power Data Connecting Harness (EPDCHFJ)
5. Power Data In-line Connector (EPDICFJ)
6. Power Data Vertical Module – Double (EPDMDFJ)

electrical distribution basics

Power Data distribution consist of the following components.

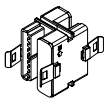
Power Data Starter Cable (EPDSCFJ)

- 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"

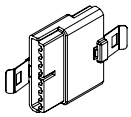


Power Data Four-Way Splitter (EPDDBFJ)

- 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

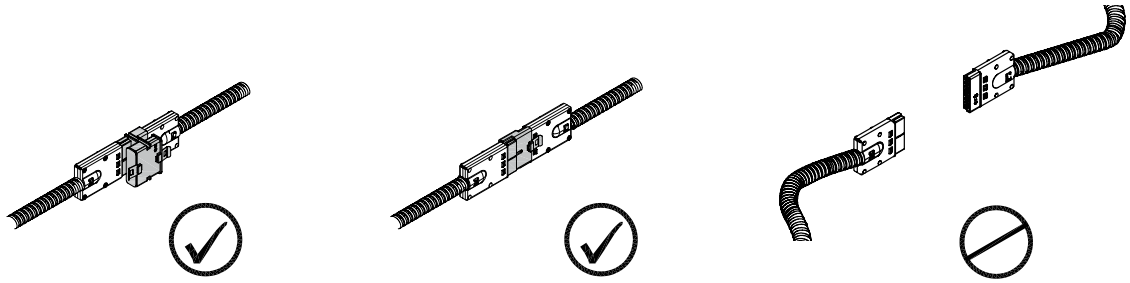


Power Data Inline Connector (EPDICFJ)

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

planning power data electrical distribution

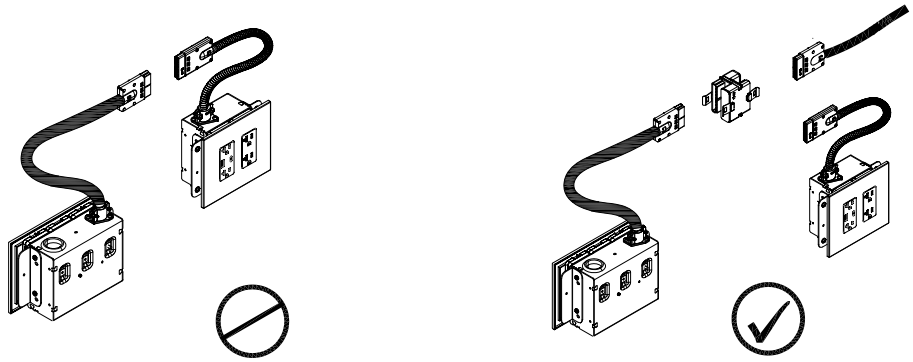
harness



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

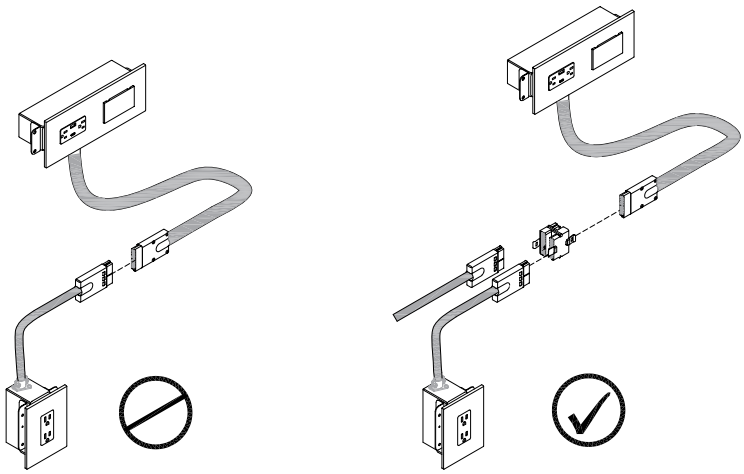
Harnesses cannot be linked together.

power data modules



Power data modules cannot be linked together.

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

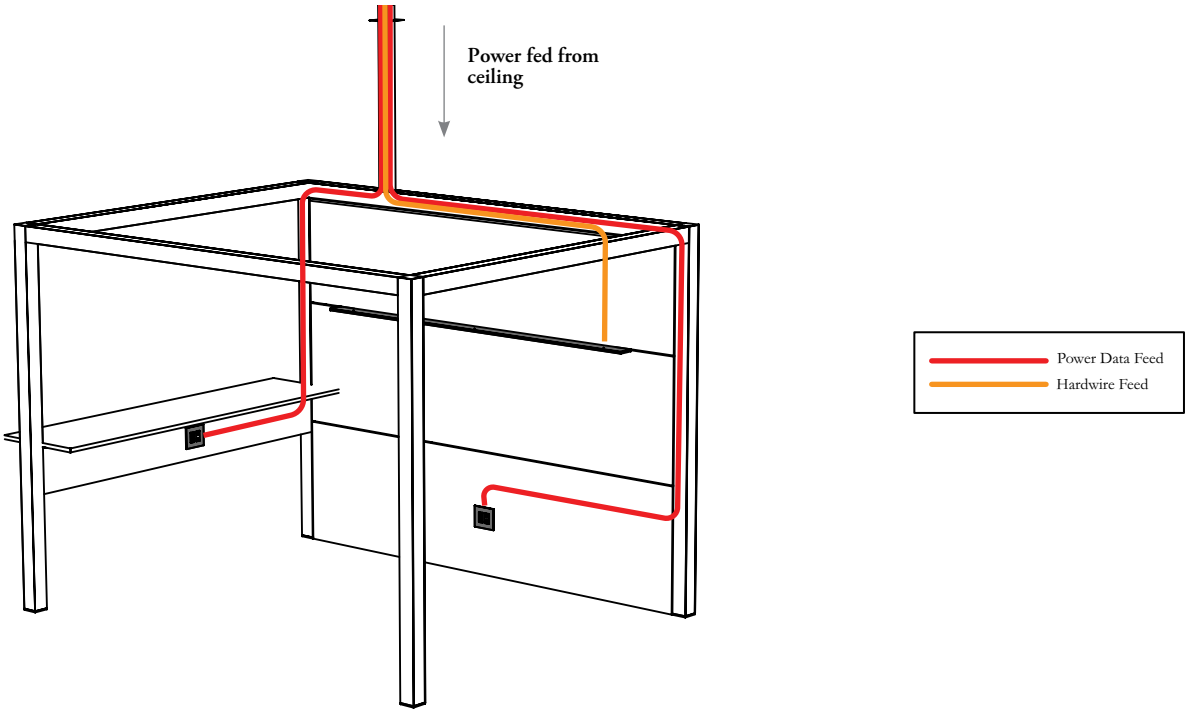


planning for electrical distribution feed

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.

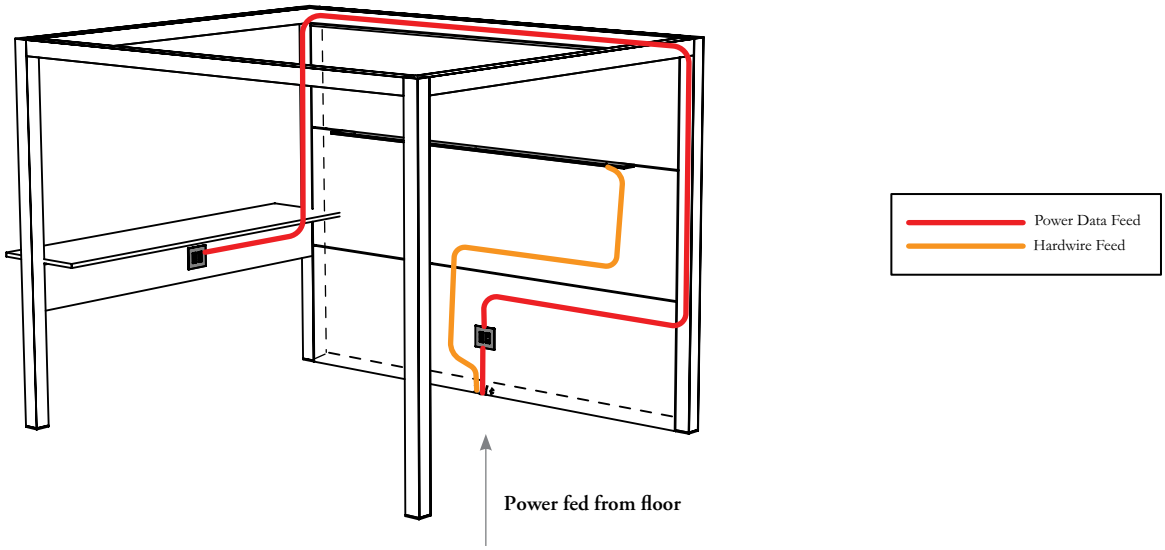
Ceiling Feed

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



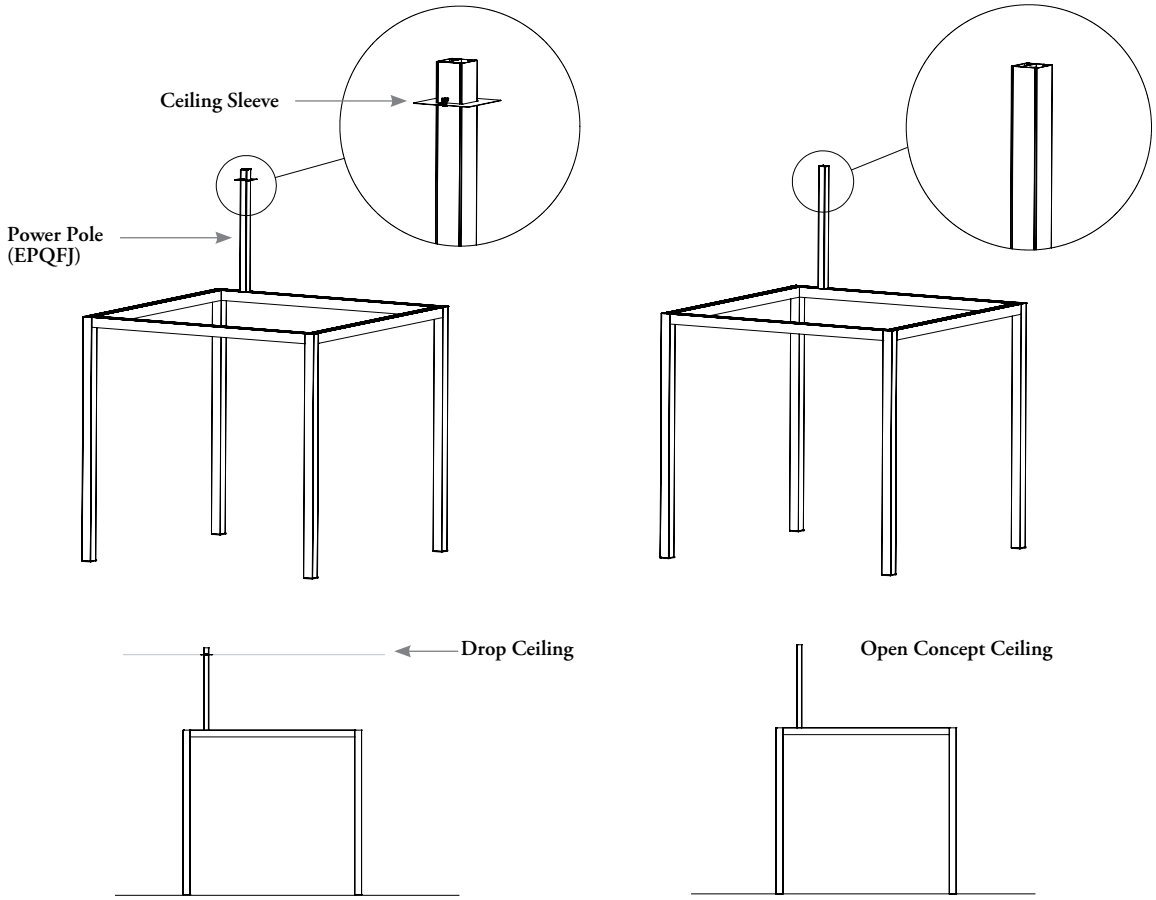
Base Feed

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

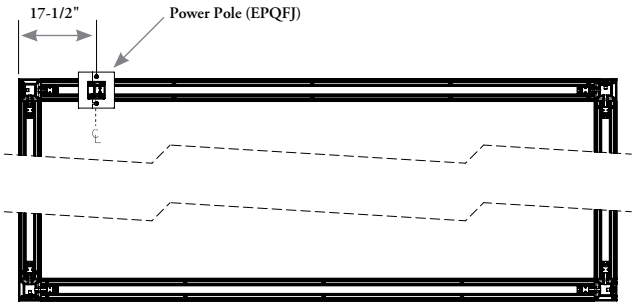


planning for electrical ceiling feed

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



The Ceiling Power Pole (EPQFJ) can uses 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.

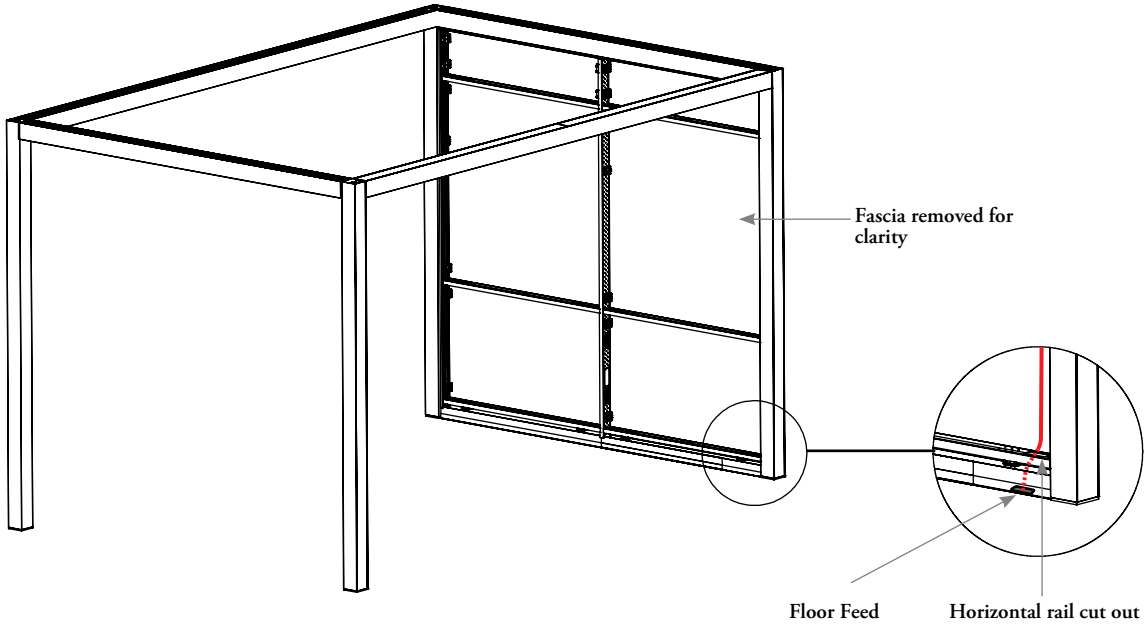


Plan View

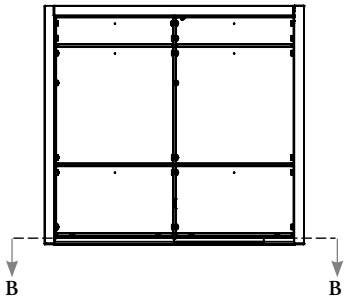
The Ceiling Feed Power Pole (EPQFJ) can me mounted a minimum distance of 17-1/2" to the centerline from any outside edge of a post.

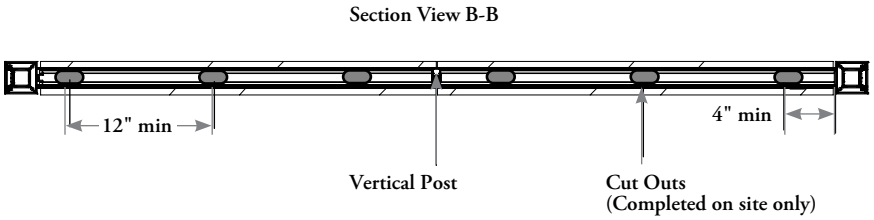
planning for electrical base feed

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.

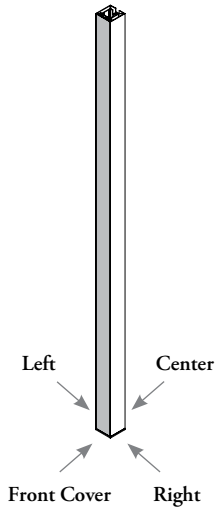


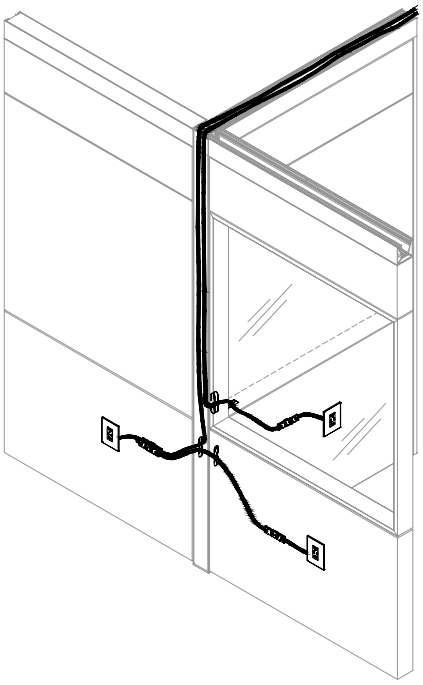


If multiple feeds from the floor are to be used they should be spaced a minimum of 12".
Holes do not come pre cut into the base channel.
Electrical connections should be coordinated with an electrician prior to install.

planning for electrical post routing

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





Electrical Cut Out options:

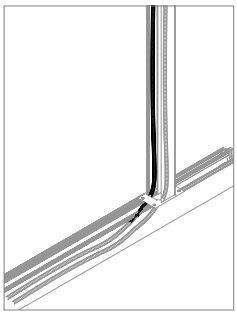
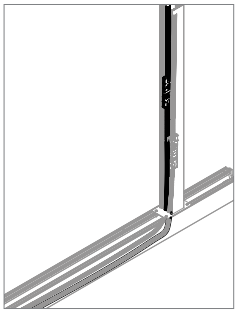
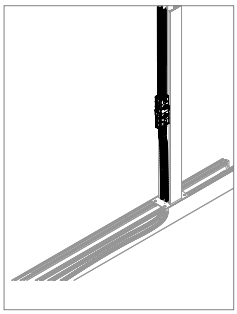
RIGHT	none, 25" or 35" cut out
CENTER	none, 25" or 35" cut out
LEFT	none, 25" or 35" cut out

- 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.

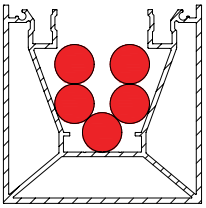
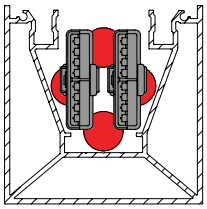
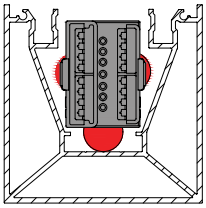
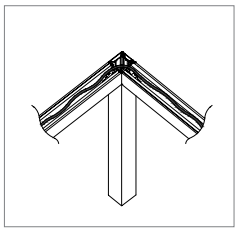
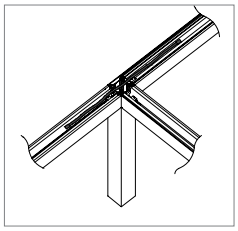
planning for electrical post & beam routing

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

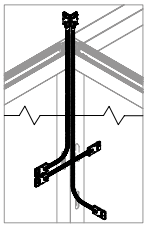
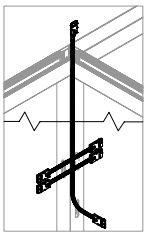
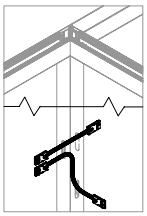
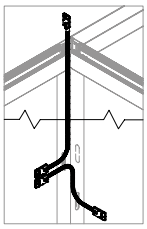
planning for electrical post & beam routing (continued)

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

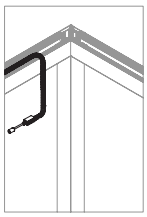
planning for electrical post & beam routing (continued)

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)

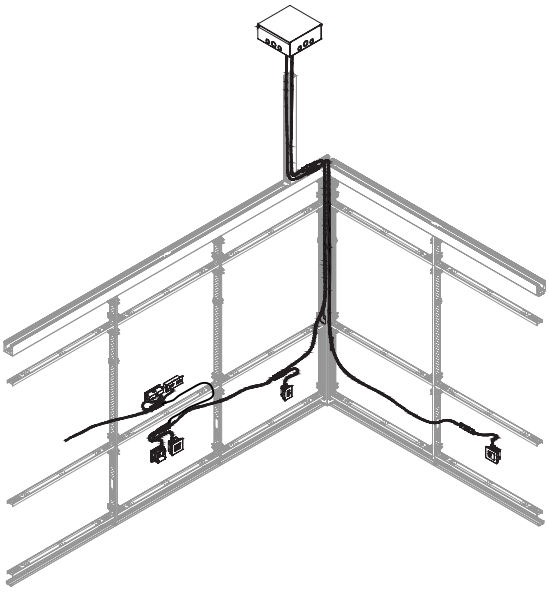
The following outlines the options for electrical distribution through a post for hardwiring.

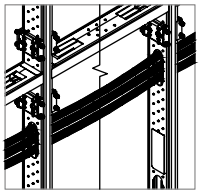
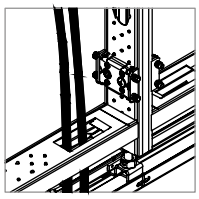
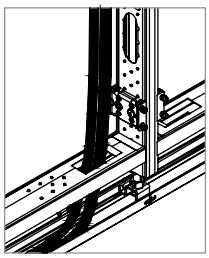
	Image Reference	Descriptions	Quantity Cables
✓		Beam to Wall - 90˚ Exit	1 x Hardwire (set back 12" minimum from post + beam connection point)

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

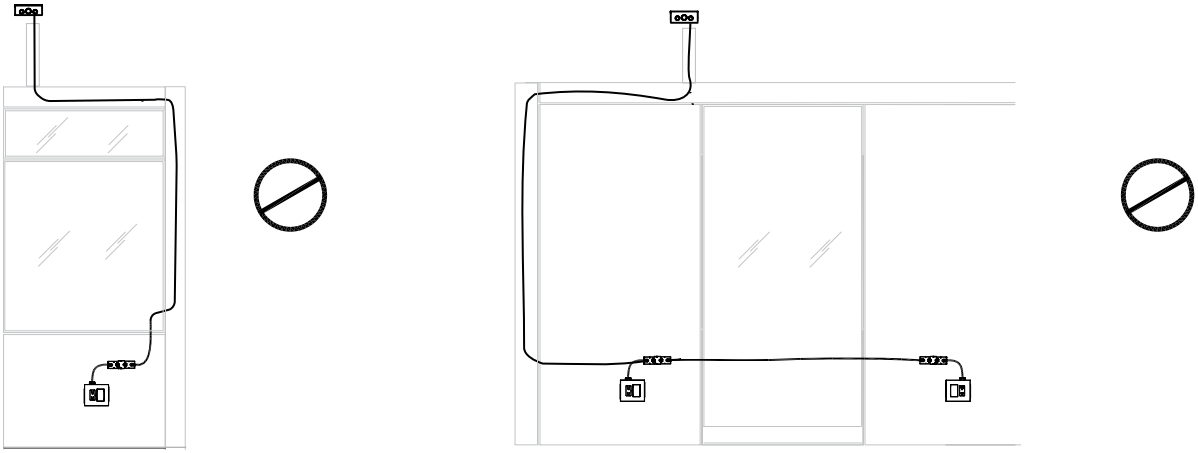


Power path		Number of maximum connectors per cut out: Portrait Power Data	Number of maximum connectors per cut out: Landscape Power Data
In-line through two vertical post		3	3
Through horizontal		2	2
Through horizontal at the base		2	2

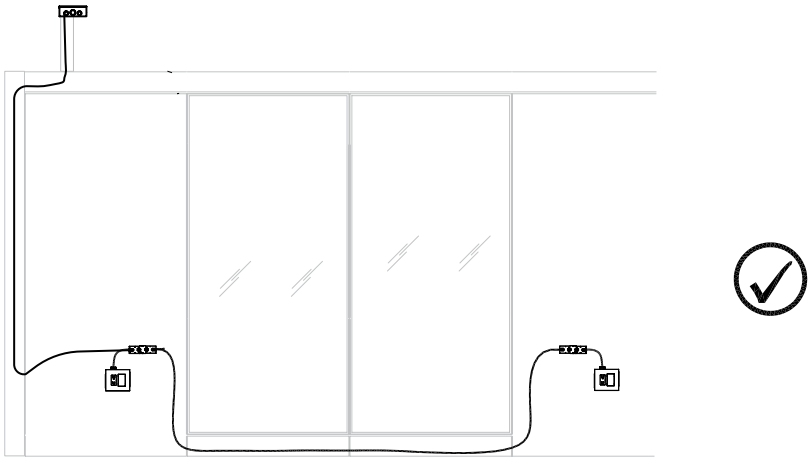
planning for electrical feeds infill wire routing (continued)

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

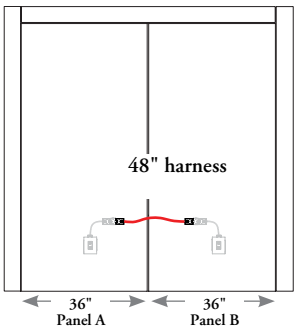
harness length matrix

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

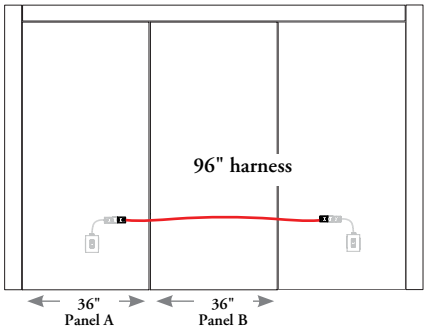
Adjacent Panels with Power Data Modules at the same height



Example Harness calculation: $\underbrace{\frac{36"}{2}}_{A} + \underbrace{\frac{36"}{2}}_{B} = \underbrace{36"}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ\_ \_048}}_{\text{product to order}}$

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

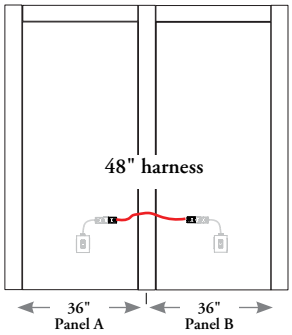
Passing through more than one panel at the same height



Example Harness calculation: $\underbrace{\frac{36"}{2}}_{A} + \underbrace{36"}_{B} + \underbrace{\frac{36"}{2}}_{C} = \underbrace{72"}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ\_ \_96}}_{\text{product to order}}$

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

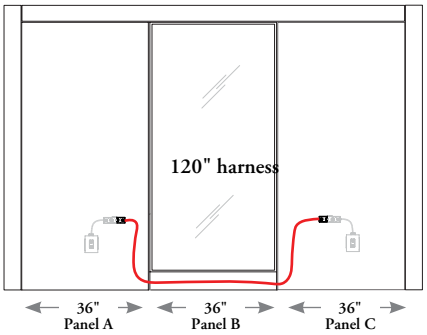
Panels adjacent to a Post Data Modules at the same height



Example Harness calculation: $\underbrace{\frac{36"}{2}}_{A} + \underbrace{4"}_{} + \underbrace{\frac{36"}{2}}_{B} = \underbrace{40"}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ\_ \_48}}_{\text{product to order}}$

_ _ 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: $\underbrace{\frac{36"}{2}}_{A} + \underbrace{36"*}_{\text{rise/drop}} + \underbrace{\frac{36"}{2}}_{B} + \underbrace{36"}_{C} = \underbrace{72"}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ\_ \_120}}_{\text{product to order}}$

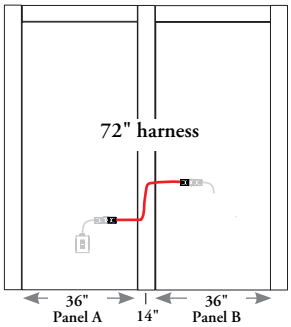
When passing through unpowered fascias with obstructions such as glass panels, a change is necessary to route power at base.

_ _ 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:

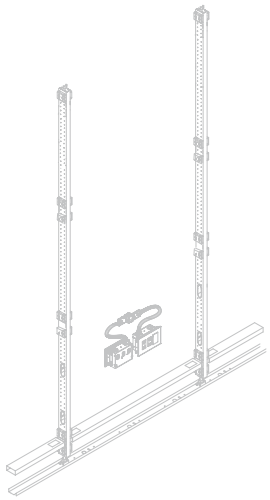
$$\underbrace{\frac{36"}{2}}_{\text{A}} + \underbrace{14"}_{\text{rise/drop through post}} + \underbrace{\frac{36"}{2}}_{\text{B}} = \underbrace{50"}_{\text{calculated length}} \rightarrow \underbrace{\text{EPDCHFJ\_ \_ 72}}_{\text{product to order}}$$

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

determining harness length infills

The following examples will further explain these rules

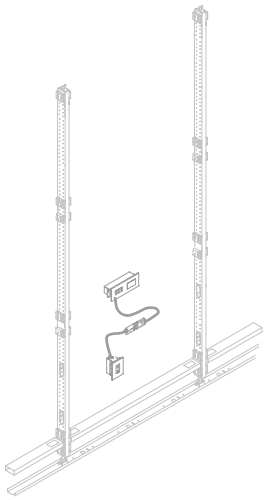
Back-to-back



Monolithic Wall example shown

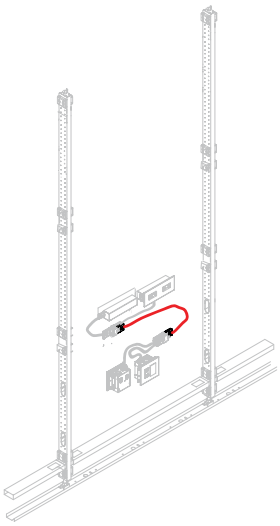
Back to back do not require harnesses to connect them together.

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



Monolithic Wall example shown

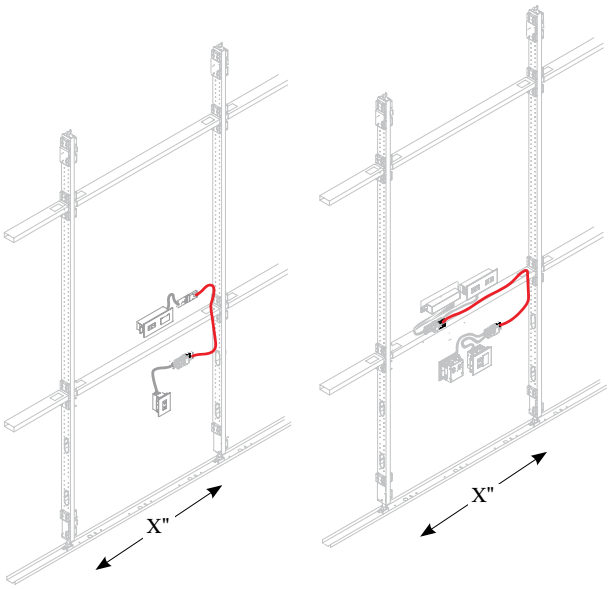
Connecting three or four in the same fascia



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

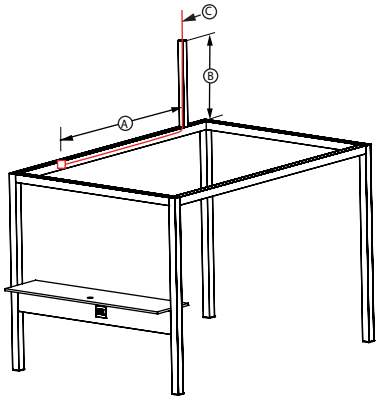
When connecting power data modules at 35"AFF with one at 15" AFF on another fascia in the same wall module, a harness equal to the length of the fascias (dimension x") is required along the 1 x four-way splitter and 1 x inline connector.

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" → EPDSCFJ_ _240

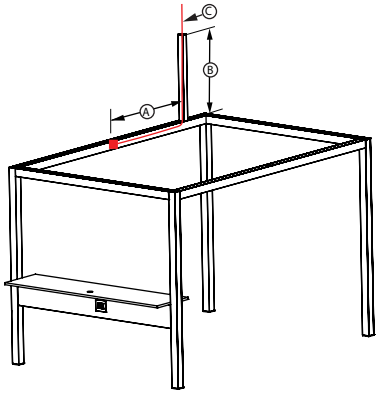
A	B	C		
line connector to power pole	power pole height	slack for hardwire	calculated length	product to order

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



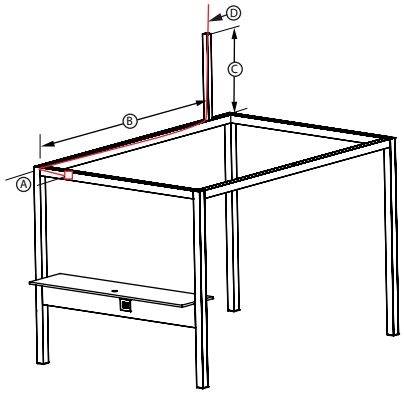
Example Starter Cable calculation: $\frac{96"}{2}$ + 42" + 12" = 102" → EPDSCFJ_ _120

A	B	C		
beam length	power pole height	slack for hardwire	calculated length	product to order

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" → EPDCH FJ_ _144

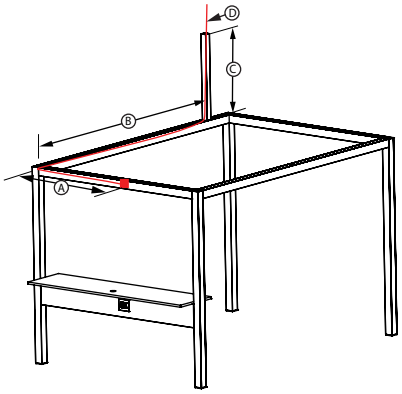
A		B	C	D		
inline connector to post	over post	beam to post length	power pole height	slack for hardwire	calculated length	product to order

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" → EPDCH FJ_ _240

A		B	C	D		
four-way splitter to post	over post	beam to post length	power pole height	slack for hardwire	calculated length	product to order

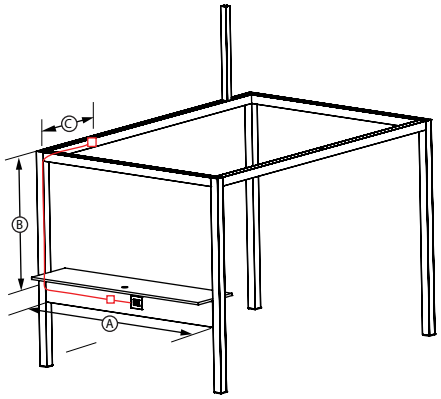
Depending on site condition more slack for hardwire may be required.

_ _ 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



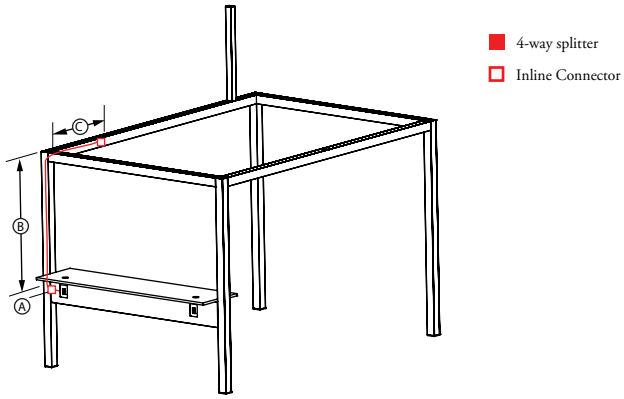
Example Harness calculation: $\frac{96"}{2}$ + 71" + 8" = 127" → EPDCHFJ_ _144

A	B	C	calculated length	product to order
$\frac{96"}{2}$	71"	8"	127"	EPDCHFJ_ _144
nominal worksurface width		length in 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.

Offset Worksurface Outlet to Beam Inline Connector



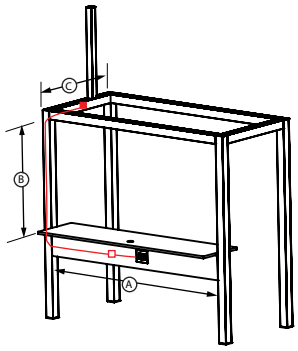
Example Harness calculation: 9" + 71" + 8" = 88" → EPDCHFJ_ _96

A	B	C	calculated length	product to order
9"	71"	8"	88"	EPDCHFJ_ _96
		length in 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



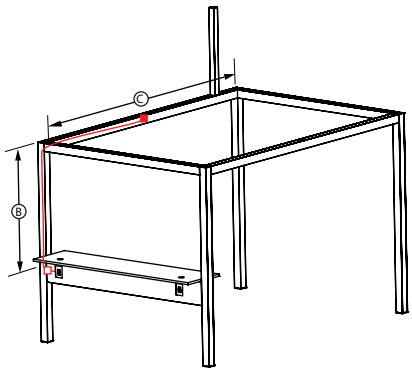
Example Harness calculation: $\frac{96"}{2}$ + 71" + $\frac{40"}{2}$ = 139" → EPDCHFJ_ _144

A	B	C	calculated length	product to order
$\frac{96"}{2}$	71"	$\frac{40"}{2}$	139"	EPDCHFJ_ _144
nominal worksurface width		beam length		

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" → EPDCHFJ_ _144

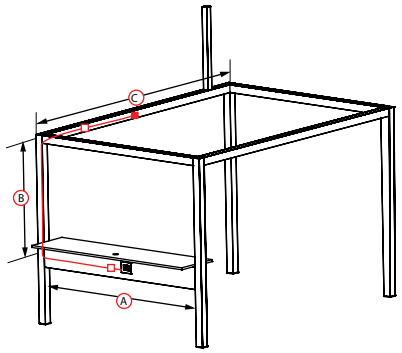
A	B	C	calculated length	product to order
9"	71"	$\frac{120"}{2}$	140"	EPDCHFJ_ _144
		beam length		

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" → EPDCHFJ_ _144 / EPDCHFJ_ _048

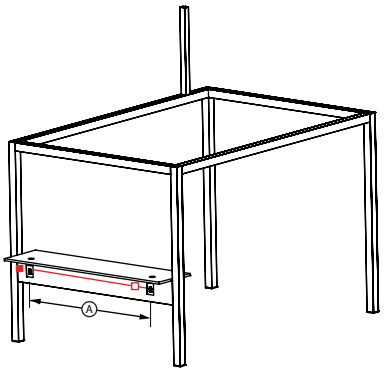
A nominal worksurface width	B	C beam length	calculated length	product to order

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" → EPDCHFJ_ _96

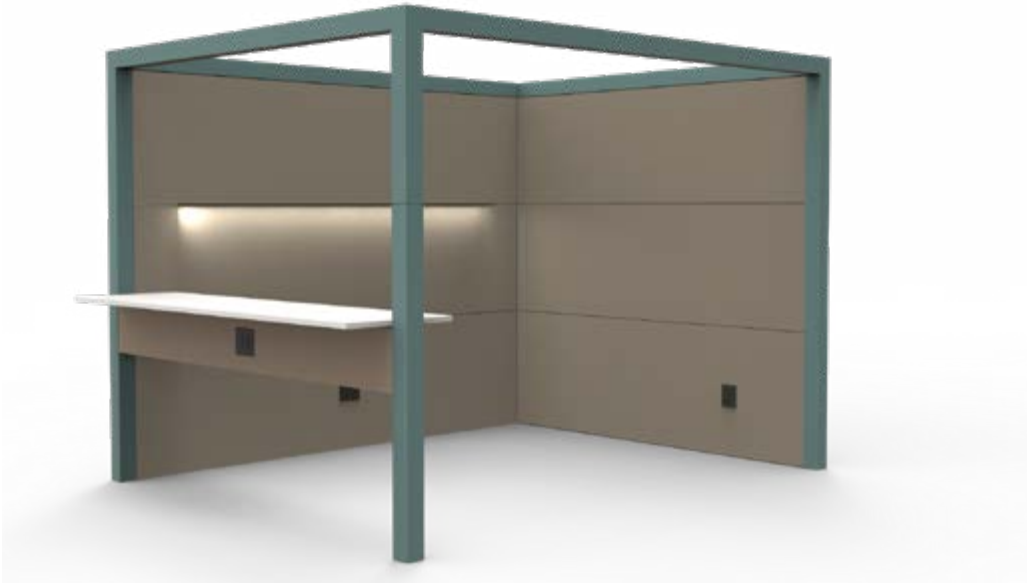
A nominal worksurface width	B	calculated length	product to order

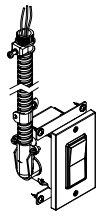
Four-Way Splitter must be centered in Beam.

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

lighting basics

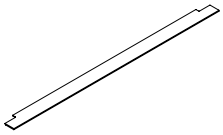
Lighting consist of the following components.





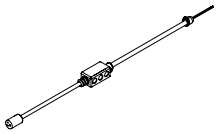
Light Switch (ELSFJ)

- 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



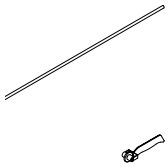
Wall-Mounted Light (ELWMLFJ)

- 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
  - 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

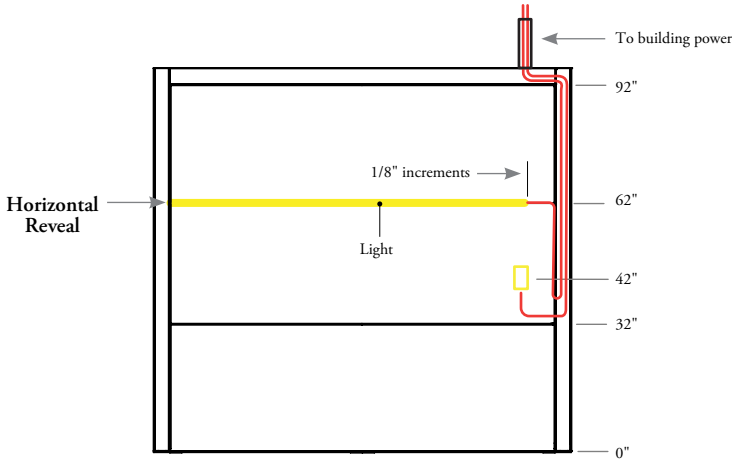
planning with wall-mounted lights

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

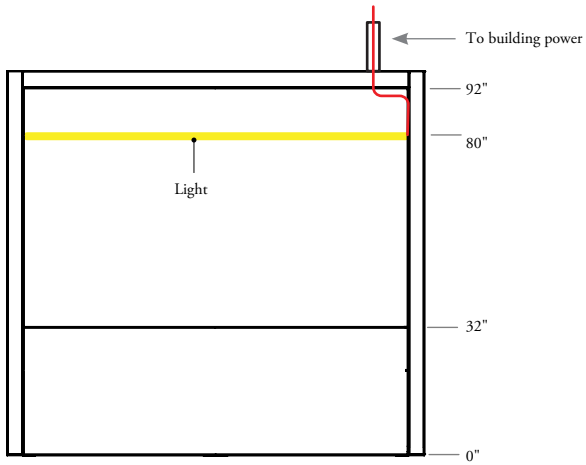
The Wall-Mounted Light is available on either the 62" or 80" datums.

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.



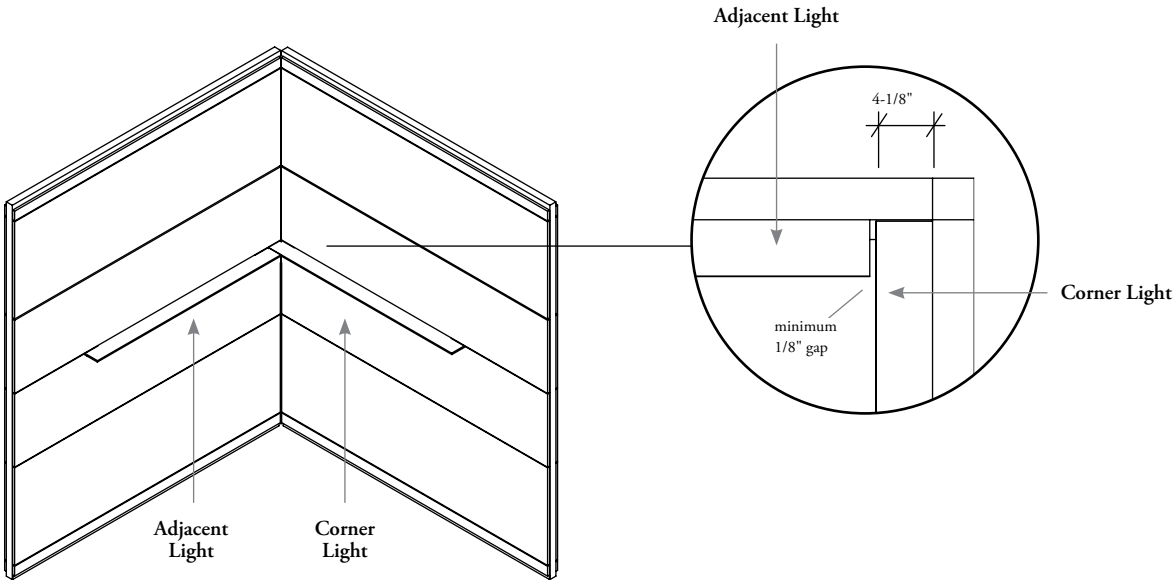
Wire shown passing through post at 35" AFF (specified in post FJSPK)



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



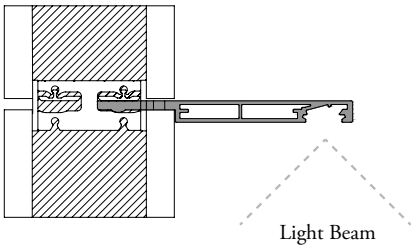
planning with wall-mounted lights (continued)

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.

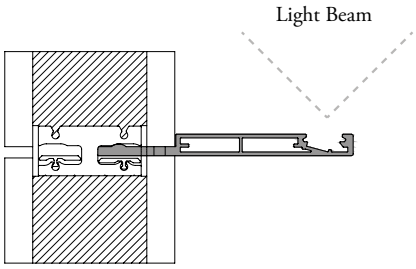
Task Light

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



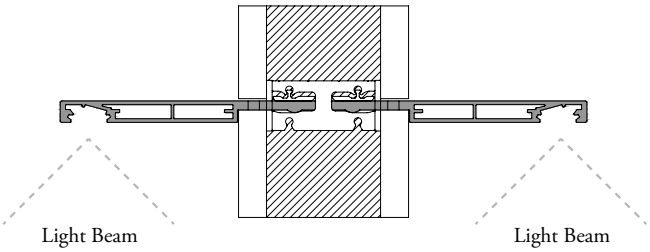
Ambient Light

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

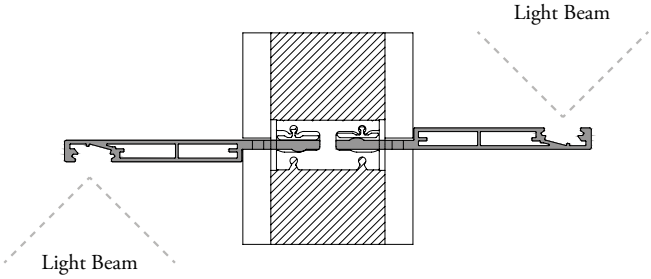


When Infill Mounted Lights are planned back-to-back they must be specified as the same application on both sides of the wall.

Task and Task



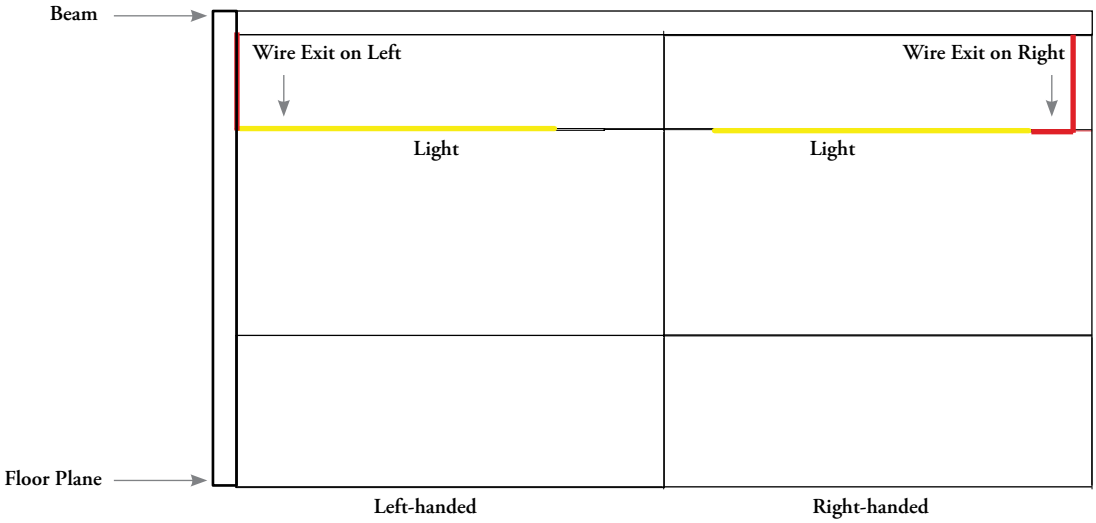
Task and Ambient



planning with wall-mounted lights (continued)

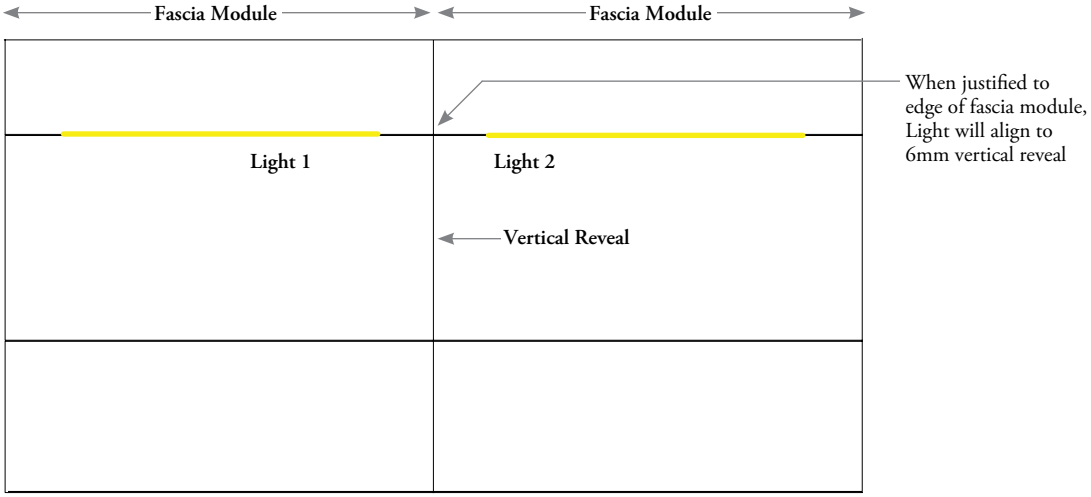
The following should be considered when planning with Landscape Wall-Mounted Lights.

- 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 it 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.

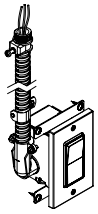


- A Wall-Mounted Light can only be planned with one light per fascia module. If two fascia modules are side-by-side a light can be specified on each module but they cannot share the same vertical reveal for wire management
- Lights cannot span across a vertical reveal

planning with light switches

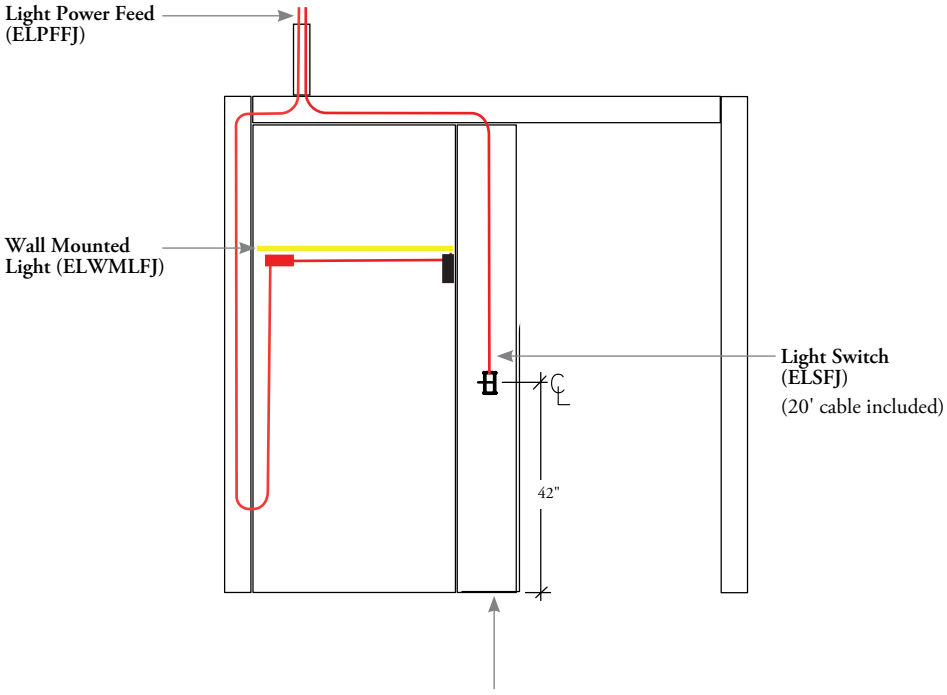
A light switch is available for WithIn to allow user control of ambient lighting

- Light switches (ELSFJ) allow for light control on fascias and are always hardwired and independent of which electrical system is chosen
- Light switched are field installed on solid or fabric wrapped fascias and are cut on site
- Light switched 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



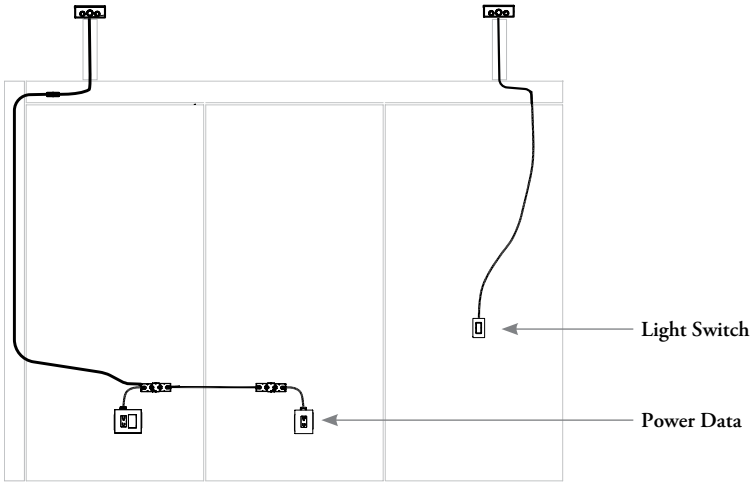
Light Switch (ELSFJ)

- 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



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 then 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

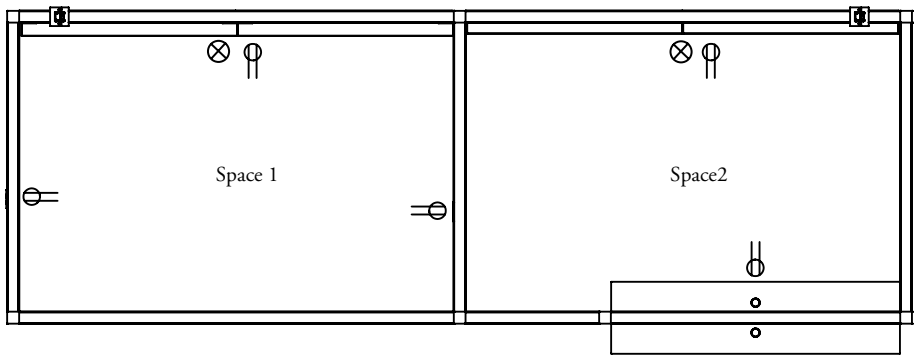
specifying method

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



Duplex Receptacle, Standard Electrical Outlet 120 volt. 15 or 20 amp

Duplex Receptacle, isolated Ground. 120 volts, 15 or 20 amp

Communications Outlet with Twisted Pair Signal Cable

Lamp

step 2:

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

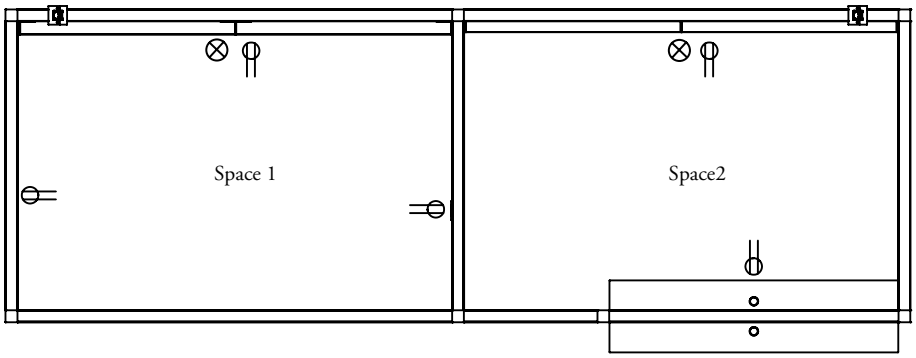
determining electrics & communications requirements

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.



Duplex Receptacle, Standard Electrical Outlet 120 volt. 15 or 20 amp

Duplex Receptacle, isolated Ground. 120 volts, 15 or 20 amp

Communications Outlet with Twisted Pair Signal Cable

Lamp

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:

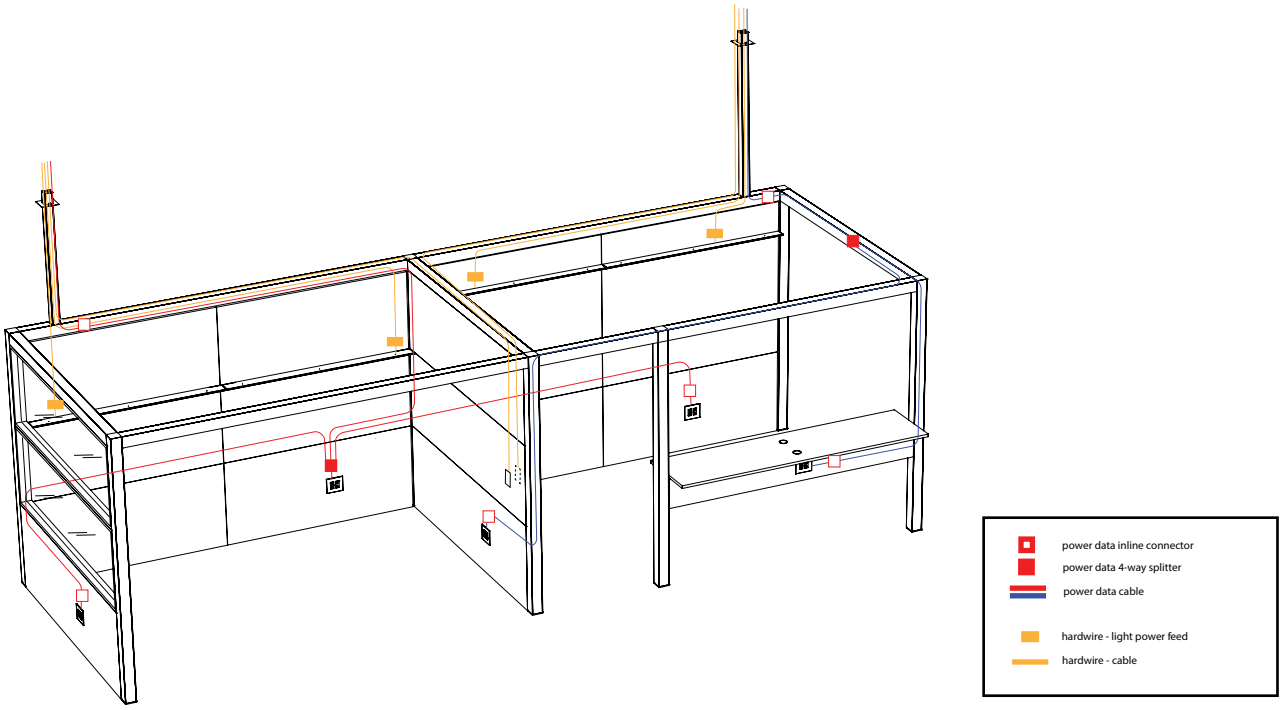
Determine the number of voice and data jacks required for each workspace. Communication jacks, faceplates and cables are supplied by the cabling contractor.

step 5:

Translate electrics and communications requirements into appropriate WithIn product.

electrical typicals

typical 01



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Some products may not be available in all markets. Contact your local Teknion Representative for availability.

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