

architectural
complements

application guide

09.23.2024

tekunion



what is architectural complements

what is architectural complements

Architectural Complements is a product line category for elements that can be used to enhance and augment existing wall systems within Teknion's Architectural Interiors portfolio.

Architectural Complements consists of small curated programs, creating a streamlined, centralized environment for specification and application knowledge. Teknion's Architectural Complements is positioned to continuously expand to respond to the ever changing needs of designers and interior spaces.

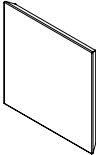
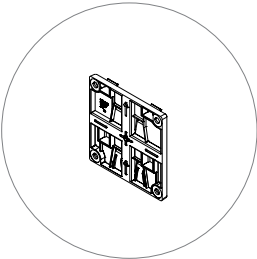
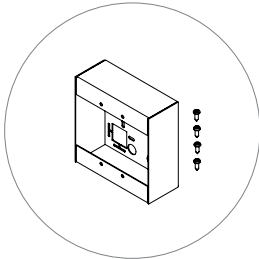
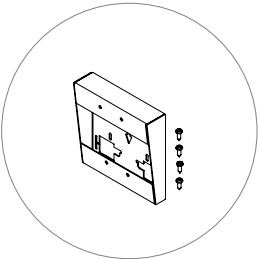
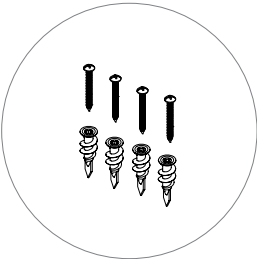

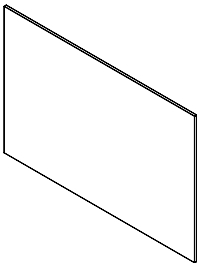
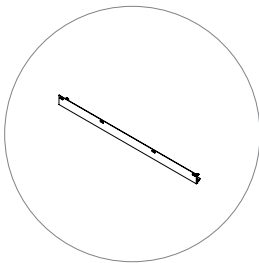
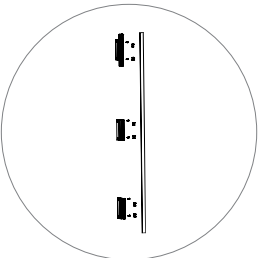
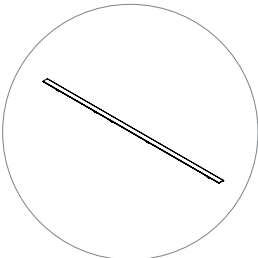


application guide

application guide

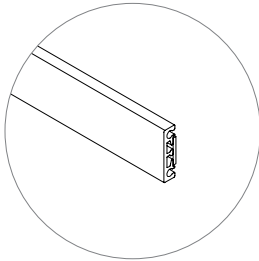
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acoustics

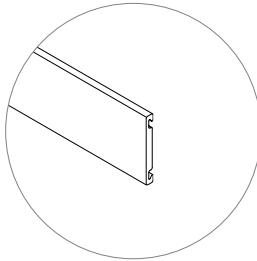
Articulate	F C A A T Articulate Acoustic Tile	F C A F B Articulate Universal Mount Plate/Flush Bracket	F C A O B Articulate Offset Bracket
			
	F C A T B Articulate Tilt Bracket	F C A I K Articulate Installation Kit	
			
Clarify	F C C P P Clarify Fabric Panel - Portrait	F C C P L Clarify Fabric Panel - Landscape	F C C H R Clarify Horizontal Rail
			
	F C C V T Clarify Vertical Trim	F C C T T Clarify Top Trim	
			

mullions

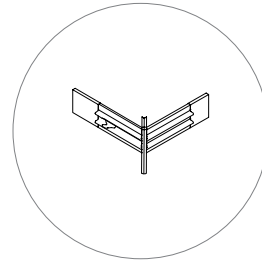
F C M N 1" x 1" Inline Mullion



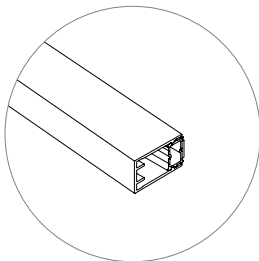
F C M D 1" x 1" Inline Door Mullion



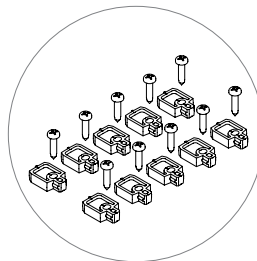
F C M H 1" x 1" Mullion Horizontal Corner Kit



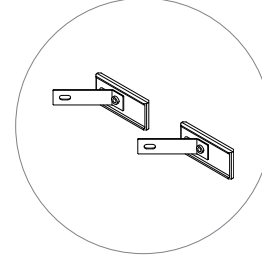
F C M I 4" x 1" Inline Mullion



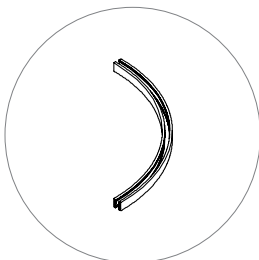
F C M K 4" x 1" Mullion Clip Kit



F C M Z 4" x 1" Mullion Horizontal Corner Kit

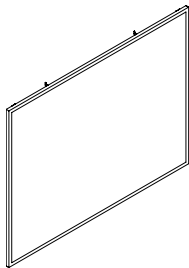


F C C M 1" x 1" Curved Mullion

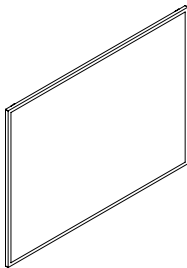


markerboards

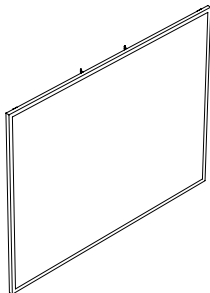
F C G A Backpainted Glass
Markerboard - Altos
Application



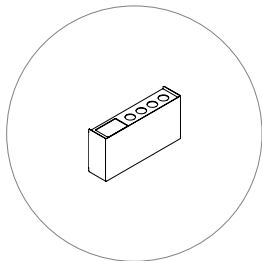
F C G P Backpainted Glass
Markerboard - POD
Application



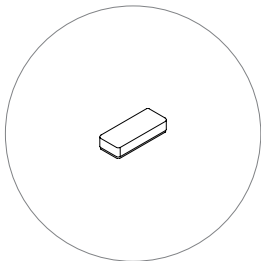
F C G W Backpainted Glass
Markerboard - Drywall
Application



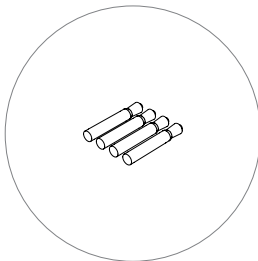
F C G H Markerboard Marker
Holder



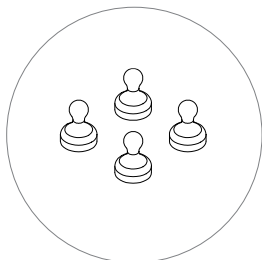
F C G E Markerboard Eraser Brush



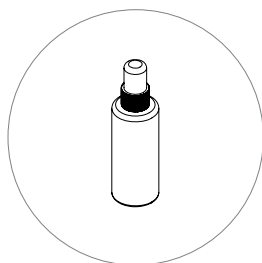
F C G M Markerboard Markers



F C G R Rare Earth Magnet Kit



F C A K Activator Kit



acoustics introduction

The following outlines the key concepts behind Architectural Complements Acoustics Program;



productivity & well being

The acoustics program consists of sound absorbing panels and tiles that mount to conventional construction. Sound absorption improves acoustic clarity within group meetings and teleconferencing situations, while increasing concentration during critical tasks.

softer, textured spaces

The acoustics program leverages existing Teknion & Luum fabric lines, adding visual comfort to rooms with multiple hard surfaces. The variety of textural and color opportunities can further enhance the quality of any interior space.

compositional

Mounting directly to building surfaces gives the acoustics program the ability to place and orient fascias with a high degree of flexibility and creativity. The wide array of possible compositions is further enhanced by the ability to mix and match finishes.

acoustics introduction (continued)

articulate - acoustic tile



clarify - acoustic panel



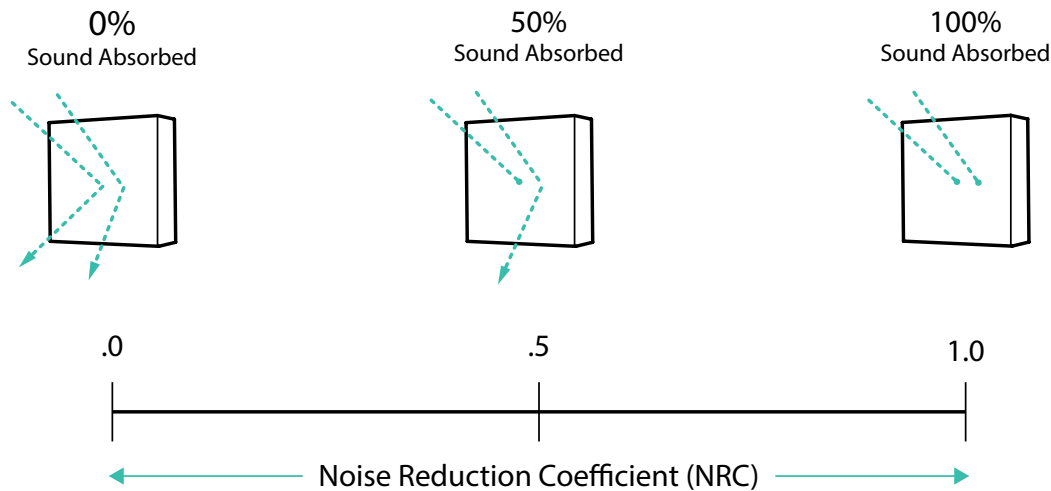
understanding acoustics - NRC

NRC (noise reduction coefficient)

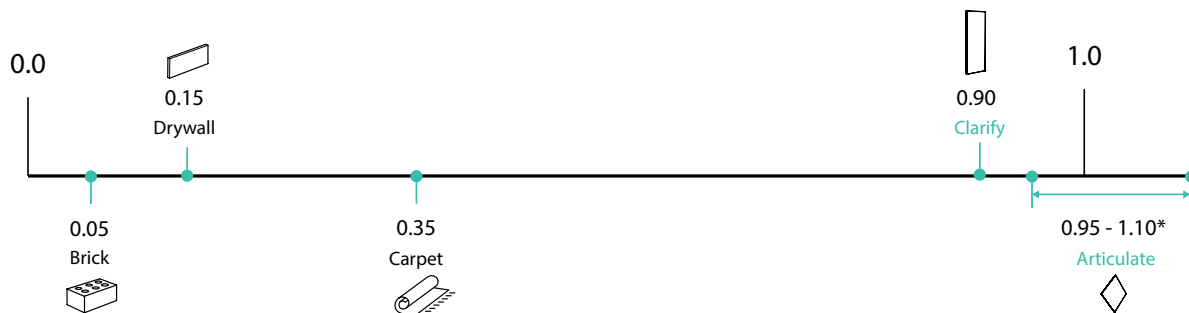
Is a measure of the ability of a surface material to absorb the energy in a sound wave at frequencies 250Hz, 500Hz, 1000Hz and 2000Hz.

Since these frequencies correspond roughly to the range of human speech, NRC can be considered as the ability of a barrier to absorb the energy in the human voice.

Range of NRC is from 0 to 1 with a 0 meaning the material is a perfect reflector of energy (therefore poor NRC) and a 1 meaning the material perfectly absorbs sound energy in that frequency range.



The Scale below indicates how the NRC values of the Articulate and Clarify products compare to common building materials. To see application examples for each products see the corresponding section in this guide.



*An NRC value greater than 1 is possible due to how the number is calculated. The area in the calculation does not include the sides of the material which can absorb sound during testing, resulting in a number greater than 1. Articulate's performance is dependent on the bracket and composition selection.

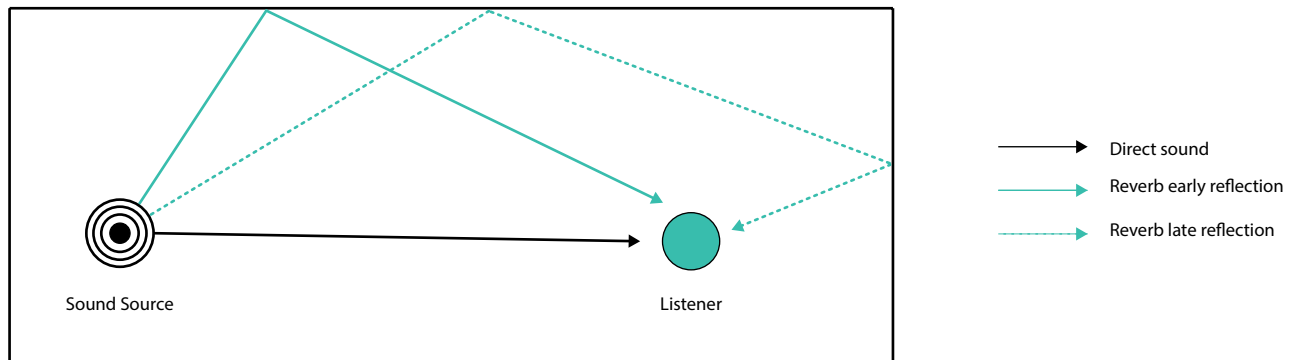
understanding acoustics - reverberation

reverberation

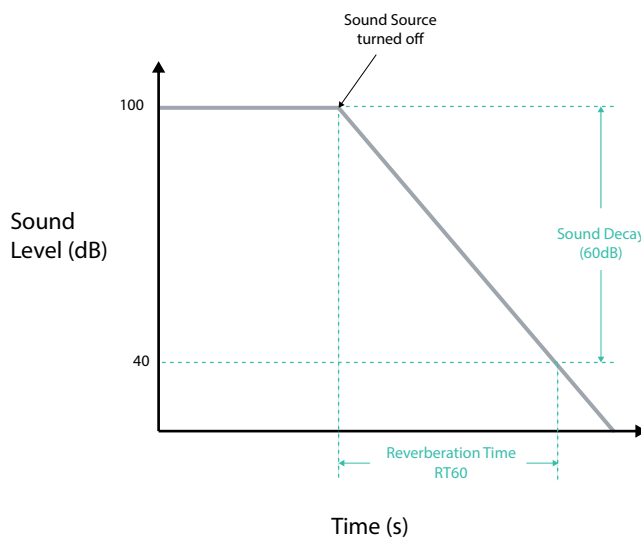
Is the reflection of sound waves bouncing off walls, ceiling, floor and other objects within a space, resulting in a persistence of the sound.

When these sound waves accumulate it can become difficult to hear speech.

Reducing these sound waves can improve the sound quality and communication within a space.



Reverberation Time 60 (RT60) is the time it takes a 500Hz sound to decrease by 60 dB.



For good speech articulation and clarity in an office an RT60 of 0.5-1.0 seconds is a suggested target.

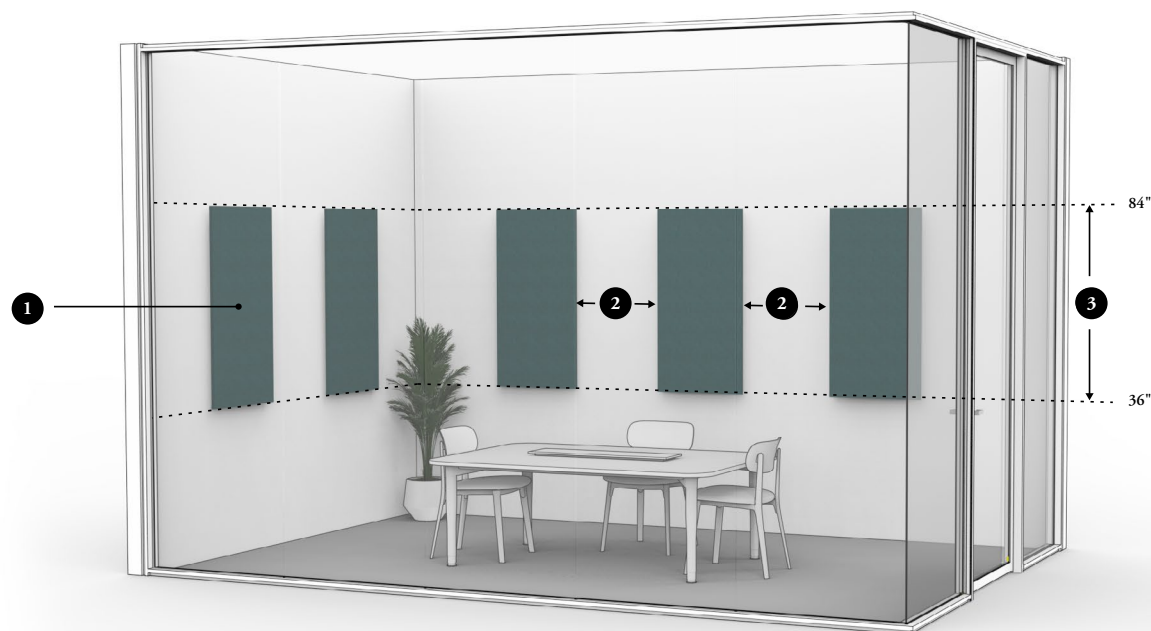
Therefore when adding acoustic products to a space the goal is to add enough to reach this target. The addition of acoustic tiles and panels with a high NRC can serve as part of broader solution to achieving optimum acoustics within a space.

understanding acoustics - placement

placement

The placement of acoustic tiles or panels within a space can impact its effectiveness to absorb sound.

Use the following guideline to help identify the best locations to optimize the effectiveness of acoustic panels and tiles within your space.



- 1 Parallel Walls
- 2 Spacing
- 3 Speech Zone

parallel walls

In a space with parallel walls it is best to place panels on a least one of the two walls that are parallel to each other if possible.. This will aid in the reduction of reverberation.

spacing

Spreading panels out within a space improves their effectiveness. This can be useful when a limited number of panels or tiles can be used within a space.

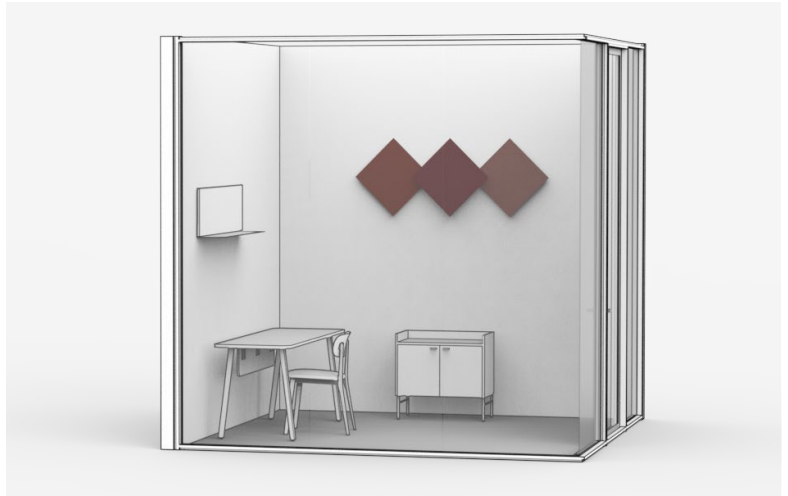
speech zone

For optimum effectiveness place the acoustic panels within the height range speech is likely to occur. As a general guide, ensure acoustic products are placed between 36" - 84" from the floor.

application guide

understanding articulate

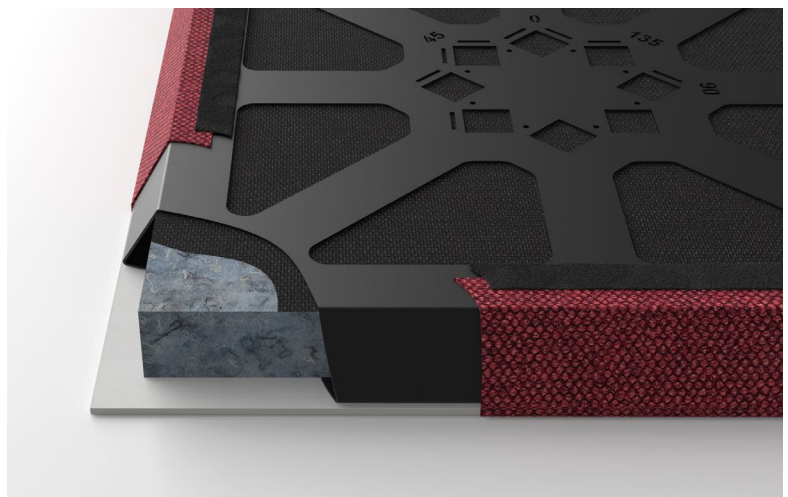
Articulate is an acoustic tile system ideal for small to medium scale rooms. It optimizes sound absorption in a composition by using various bracket types to create depth and layering.



Articulate is offered in one universal tile that can be independently rotated to be a square or diamond. The mount bracket allows each tile to be either flush, offset or tilted in various directions to create limitless compositions.



Articulate protrudes 1-7/8" to 4-7/16" from the building wall depending on the chosen bracket and is constructed of fabric, fiberglass, and cotton insulation within a steel frame for optimal sound absorption.



articulate idea starters

The following shows examples of the types of compositions that are possible with Articulate acoustic panels.



Square - Offset & Flush



Square - Offset & Flush



Diamond - Flush



Diamond - Offset & Flush

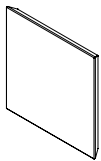
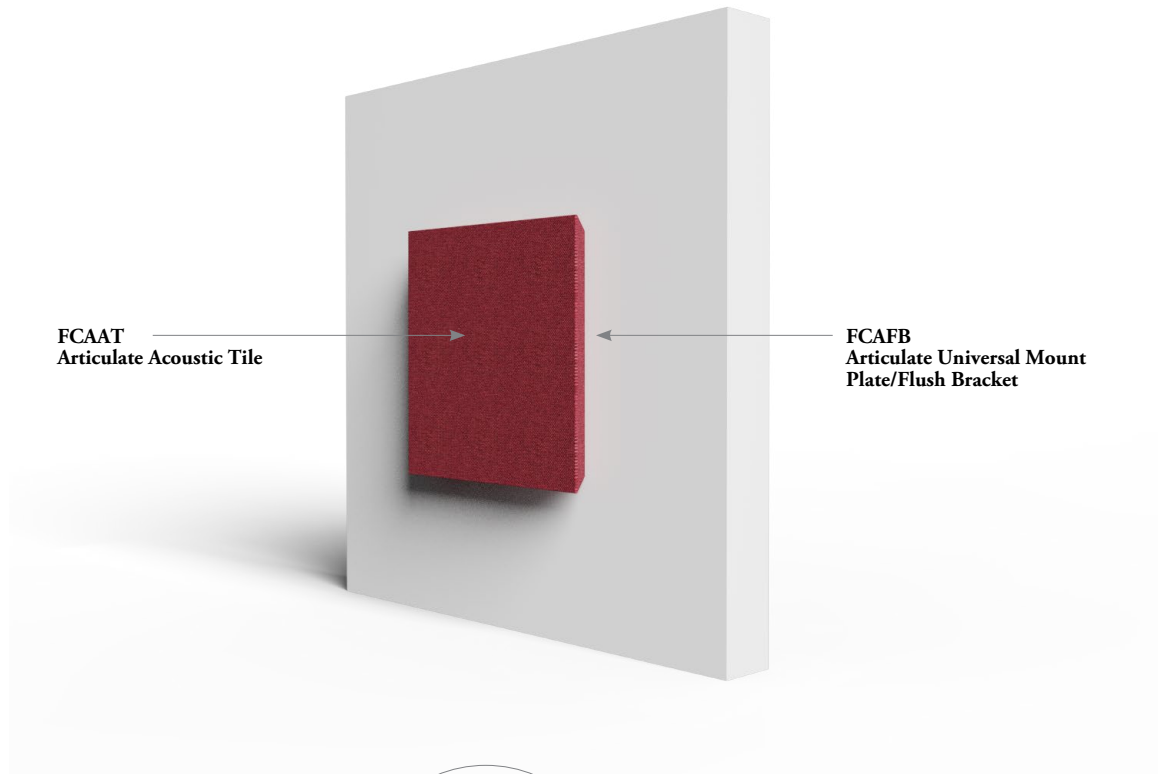


Square - Tilt up and down



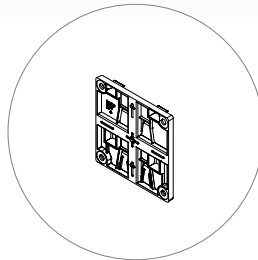
Diamond - Tilt up

Articulate consists of the following discrete elements.



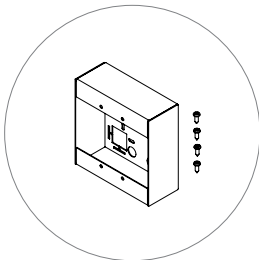
Articulate Acoustic Tile (FCAAT)

- Fabric tile rotated for shape and fabric direction:
 - Square 0° and 90°
 - Diamond 45° and 135°
- Height: 18" (nominal)
- Width: 18" (nominal)
- Finish: Panel Fabric (limited selection)



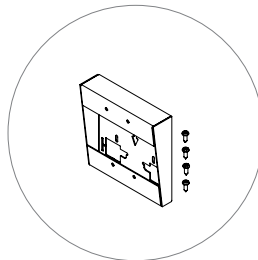
Articulate Universal Mount Plate/Flush Bracket (FCAFB)

- Flush bracket for flush tile application
- Universally applied to all tile types for installation



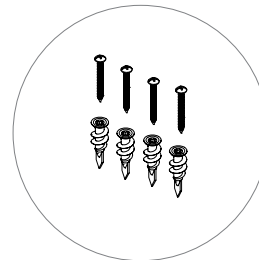
Articulate Offset Bracket (FCAOB)

- Offset bracket for offset tile application



Articulate Tilt Bracket (FCATB)

- Tilt bracket for tilt tile application
- Tilt: up, down, left, right



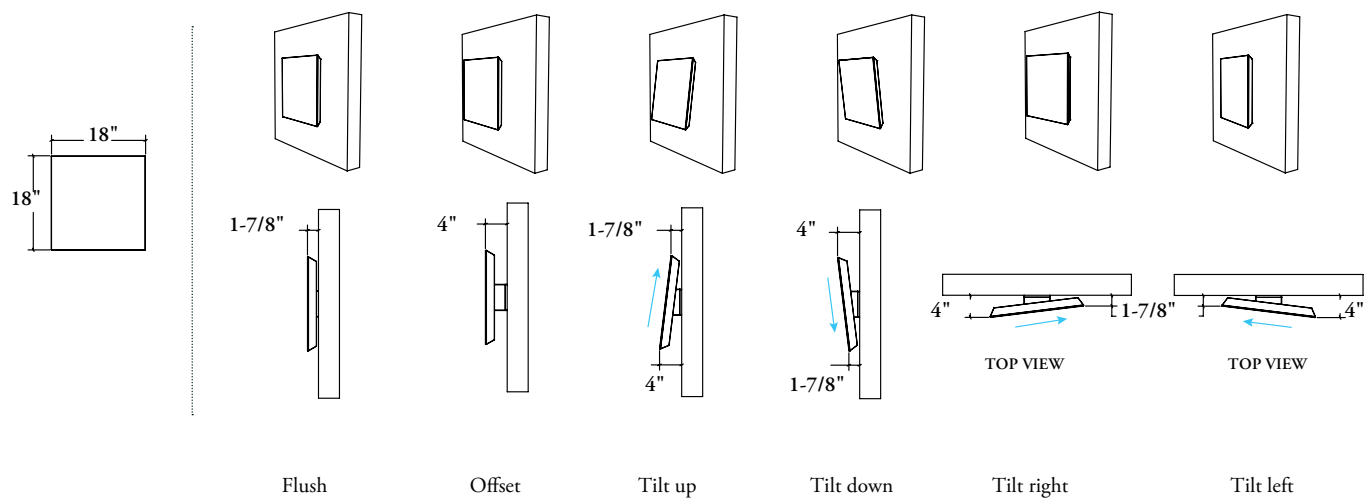
Articulate Installation Kit (FCAIK)

- Include four #8 screws and drywall anchors, eight washers
- Optional kit for installation of the universal mount bracket

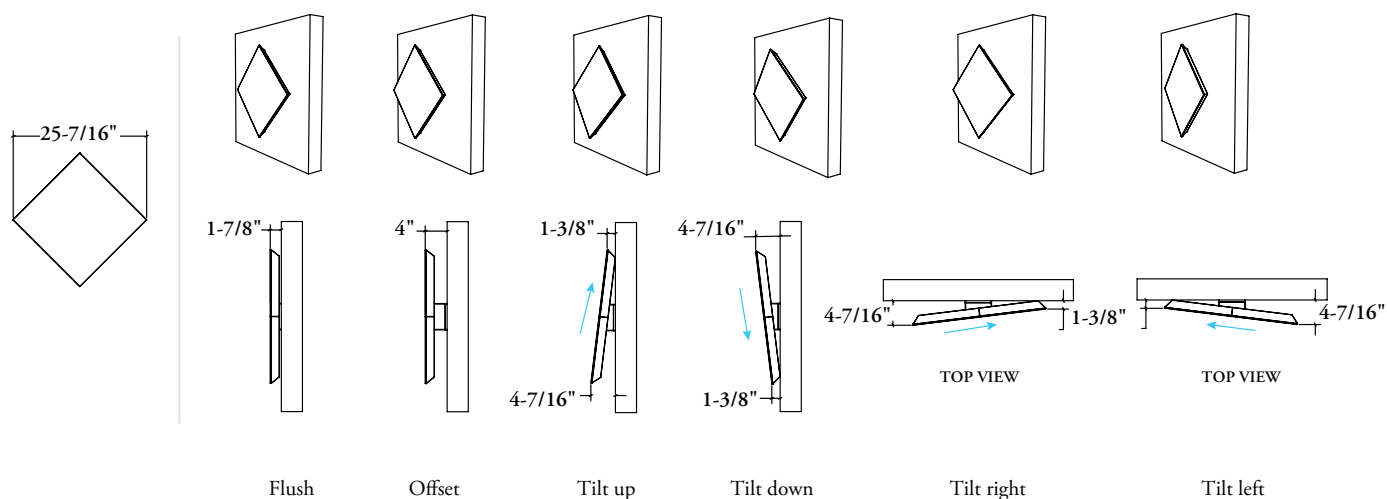
articulate tile types & dimensions

The following visually outlines Articulate tile types and their dimensions.

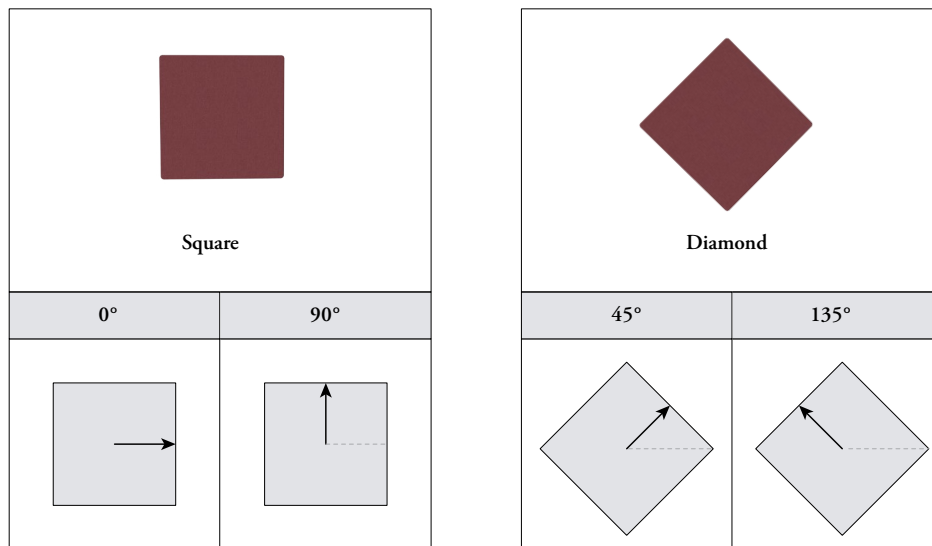
square



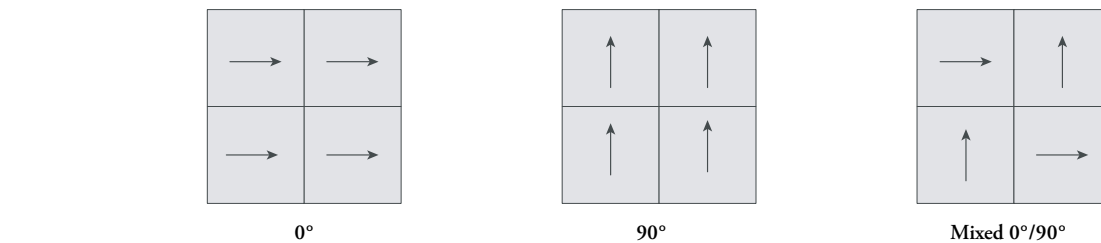
diamond



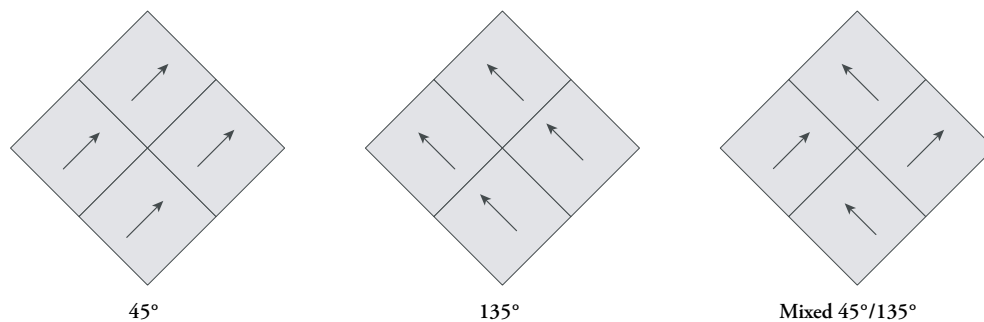
The following outlines how rotation of the Articulate tile influences both its shape and fabric direction.



The following outlines a few examples of how fabric direction can be applied to a composition.




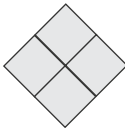
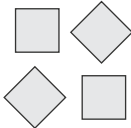
Ground Line →



Ground Line →

planning with articulate (continued)

The chart below outlines the compositions possibilities and restrictions with Articulate tiles.

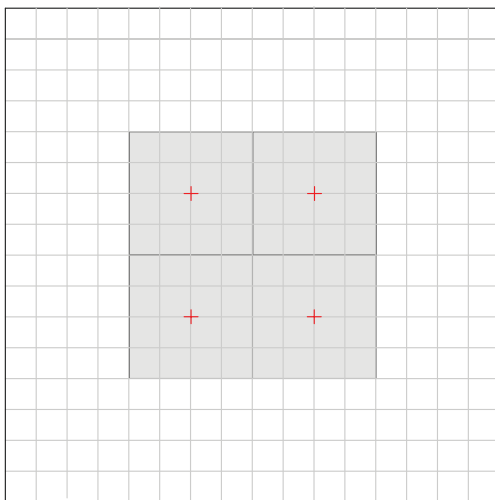
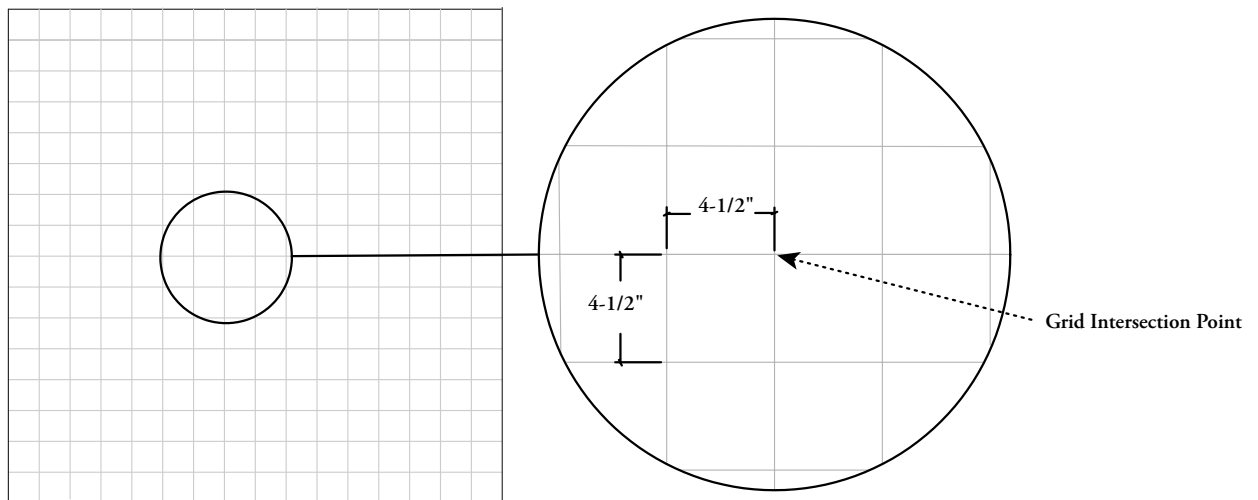
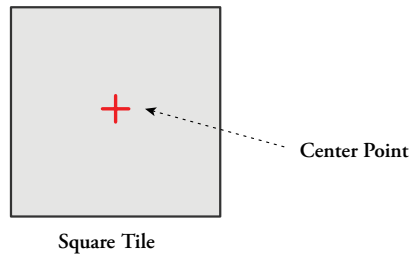
TYPE	EXAMPLE	APPROVAL	NOTES
Square		✓	Compositions using all squares tiles.
Diamond		✓	Compositions using all diamonds tiles.
Square and Diamond		✗	Compositions using squares & diamonds tiles.

planning with articulate (continued)

When creating and planning for compositions that use square tiles an incremental placement of $4\frac{1}{2}$ " as represented by the grid below. See each tile types specific placement rules on the following pages.

The gray tile and center point represented by the red cross hair in the middle represents the tile center point of each tile. This helps in understanding how a composition can be created and spaced when using various tile types.

Tiles center points must align to the grid intersection points to ensure proper spacing in a composition.

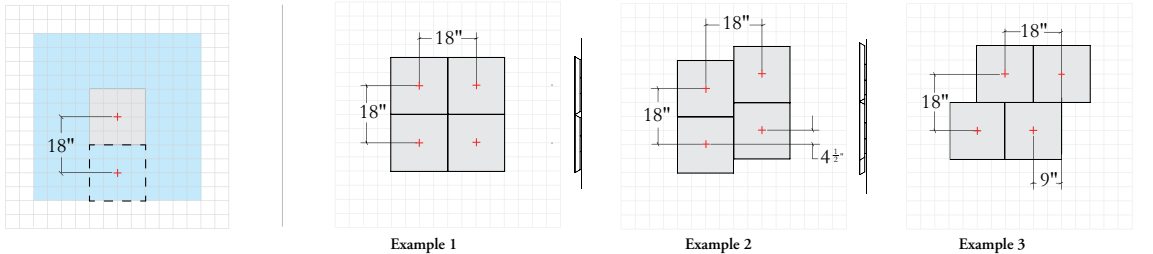


planning with articulate (continued)

The following outlines the placement rules for Articulate compositions when using square tiles.

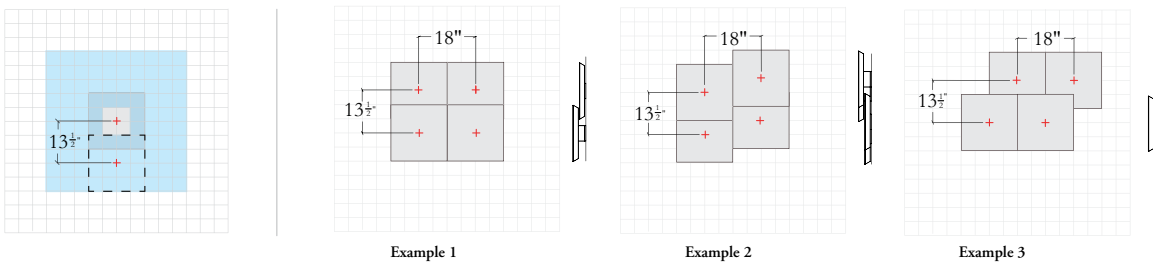
Below outlines the placement rules for tiles in relation to each other in a composition when not overlapping.

The grid in each example represents a 4-1/2" incremental spacing.



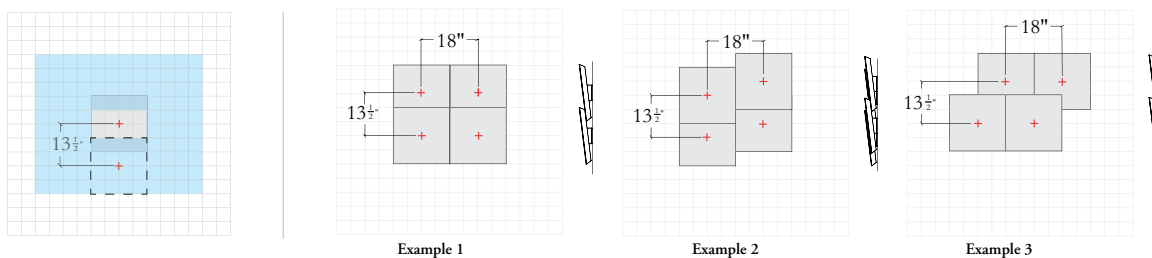
Any tile type can be placed at a minimum distance of 18" on center in the blue region.

Below outlines the placement rules for tiles in relation to each other in a composition when overlapping.

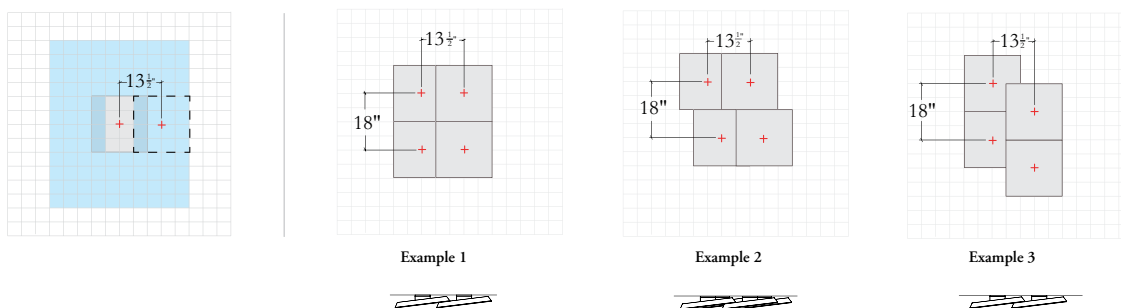


An offset tile can overlap a flush tile with minimum distance of 13-1/2" on center in the blue region.

A flush tile can be placed under an offset tile with minimum distance of 13-1/2" on center in the blue region.



A tilt up or down tile can only overlap another tilt up or down tile of the exact same type with a minimum distance of 13-1/2" on center in the blue region.



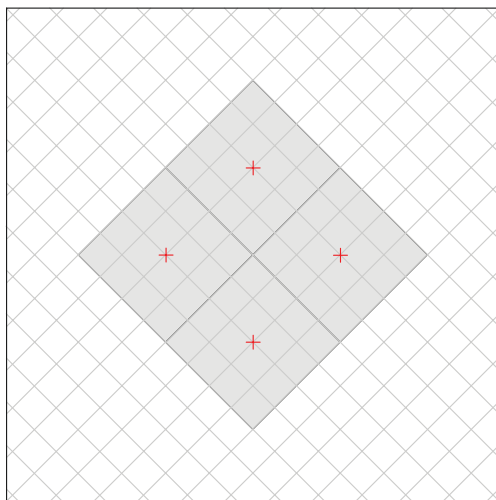
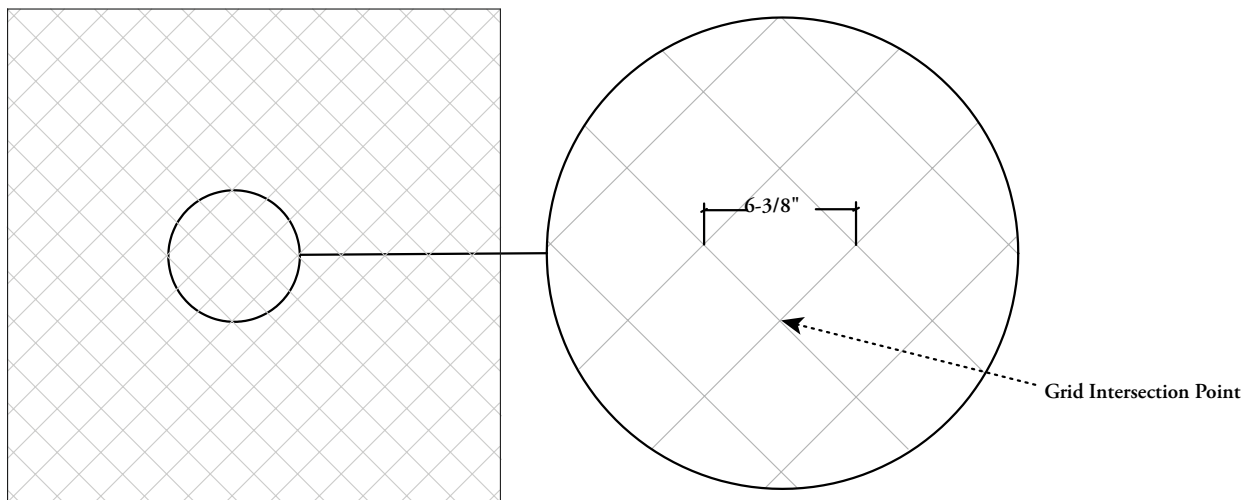
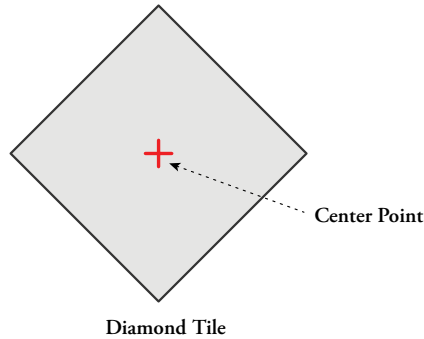
A tilt left or right tile can only overlap another tilt left or tilt right tile of the exact same type with min distance 13-1/2" on center in the blue region.

planning with articulate (continued)

When creating and planning for compositions that use diamond tiles an incremental placement of 6-3/8" is used as represented by the grid below. See each tile types specific placement rules on the following pages.

The gray tile and center point represented by the red cross hair in the middle represents the tile center point of an individual tile. This helps in the understanding of how a composition can be created and spaced when using various tile types.

Tiles center points must align to the grid intersection points to ensure proper spacing in a composition.

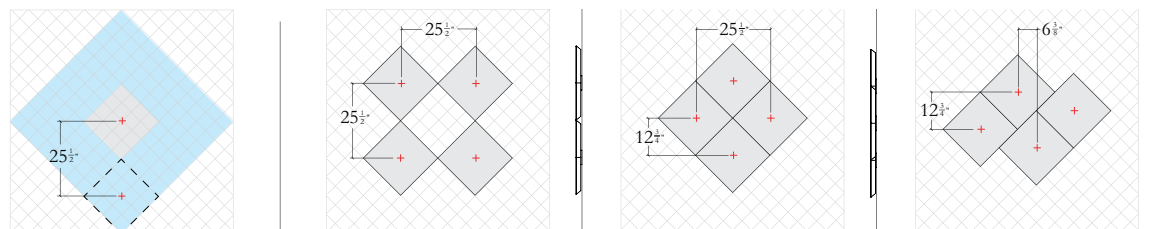


planning with articulate (continued)

The following outlines the placement rules for Articulate compositions when using diamond tiles.

The following outlines the placement rules for tiles in relation to each other in a composition when not overlapping.

The grid in each example represents a $6\frac{3}{8}$ " incremental spacing.



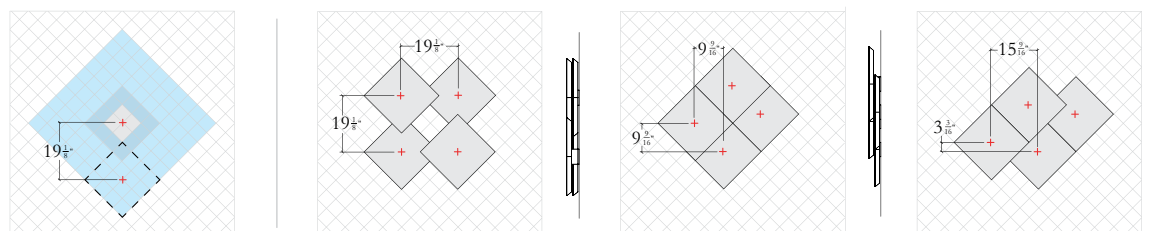
Example 1

Example 2

Example 3

Any tile type can be placed in the blue region in relation to an adjacent tile. A minimum distance of $25\frac{1}{2}$ " on center is required when tiles are aligned vertically or horizontally.

The following outlines the placement rules for tiles in relation to each other in a composition when overlapping.



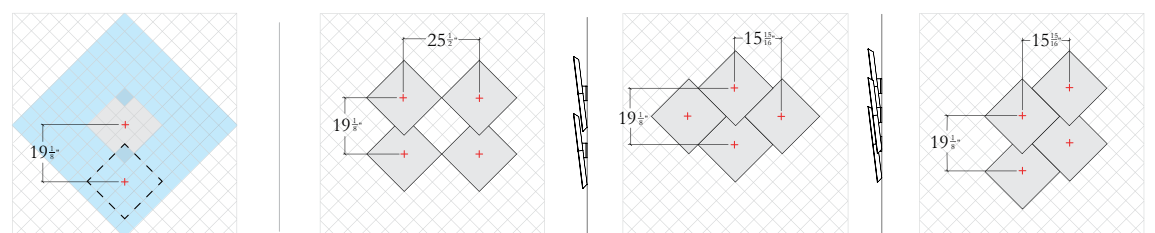
Example 1

Example 2

Example 3

An offset tile can overlap a flush tile in the blue region. A minimum distance of $19\frac{1}{8}$ " on center is required when tiles are aligned vertically or horizontally to an adjacent tile.

A flush tile can be under an offset tile in the blue region. A minimum distance of $19\frac{1}{8}$ " on center is required when tiles are aligned vertically or horizontally to an adjacent tile.

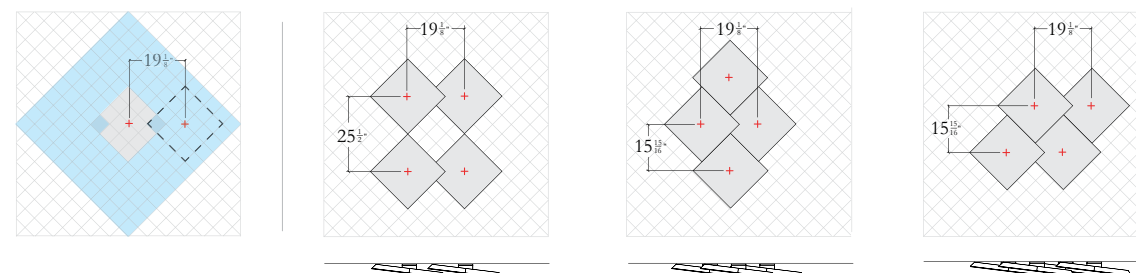


Example 1

Example 2

Example 3

A tilt up or down tile can only overlap another tilt up or down tile of the exact same type with a minimum distance of $19\frac{1}{8}$ " on center in the blue region.



Example 1

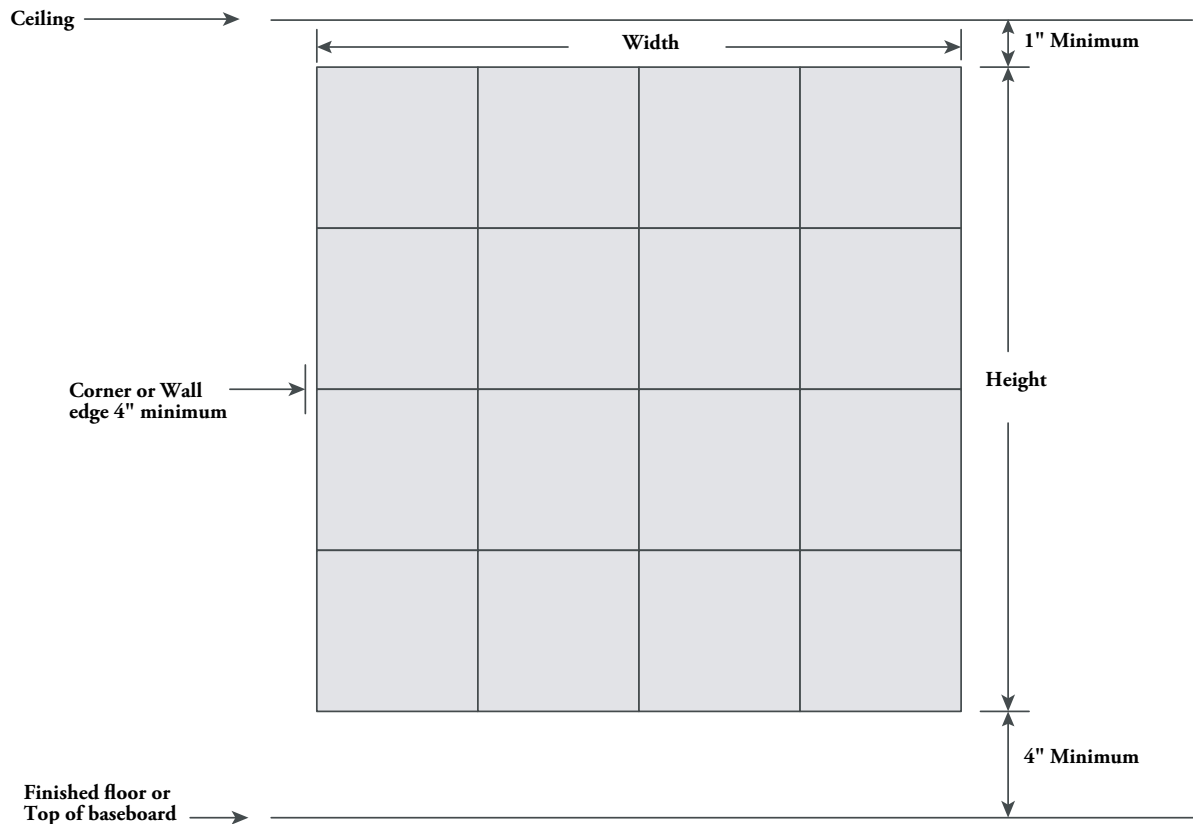
Example 2

Example 3

A tilt left or right tile can only overlap another tilt left or tilt right tile of the exact same type with a minimum distance of $19\frac{1}{8}$ " on center in the blue region.

planning with articulate (continued)

The following describes the planning restrictions of Articulate in respect to square compositions and placement relative to the base building .

**Width:**

There is no limit to the width of a square composition

Depth:

When combining more than one type of fabric in a composition the fabric thicknesses should be considered. A minute variance may be visible when two panels with different thicknesses are placed side by side

Height:

There is no limit to the height of a square composition

Top to Ceiling Spacing:

1" minimum to allow room for install

Bottom to Floor or Baseboard Spacing:

4" minimum to allow for foot clearance

Corner or Wall Edge:

4" minimum of setback to allow room for install and prevent obstructions

Site Level:

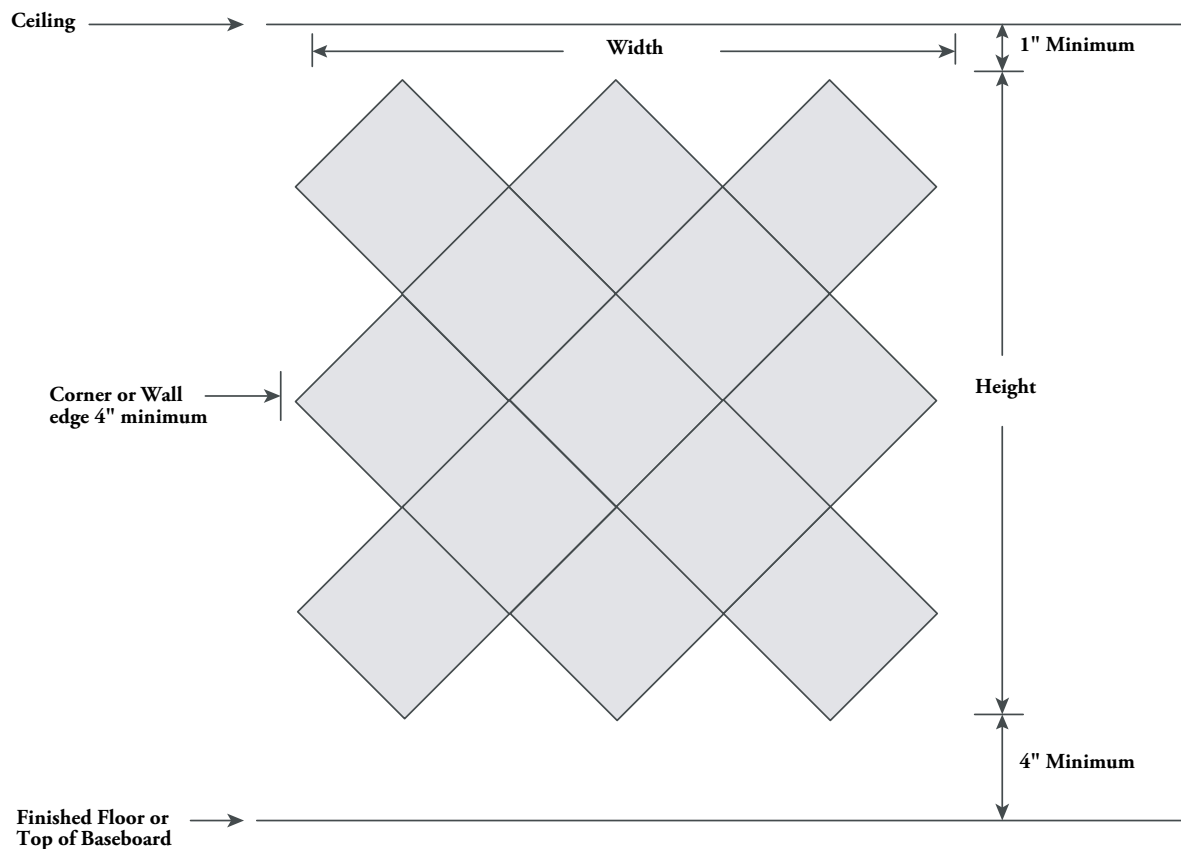
The above dimensions should consider the levelness of the site and should be measure from the highest point at the ground level and the lowest ceiling point over the width of the compositions

Wall Flatness:

The wall to be installed on needs to be flat, it cannot have significant bowing, peaks or valleys

planning with articulate (continued)

The following describes the planning restrictions of Articulate in respect to diamond compositions and placement relative to the base building .



Width

There is no limit to the width of a diamond composition.

Depth

When combining more than one type of fabric in a composition the fabric thicknesses should be considered. A minute variance may be visible when two panels with different thicknesses are placed side by side.

Height

There is no limit to the height of a diamond composition.

Top to Ceiling Spacing

1" minimum to allow room for install.

Bottom to Floor or Baseboard Spacing

4" minimum to allow for foot clearance.

Corner or Wall Edge

4" minimum of setback to allow room for install and prevent obstructions.

Site Level

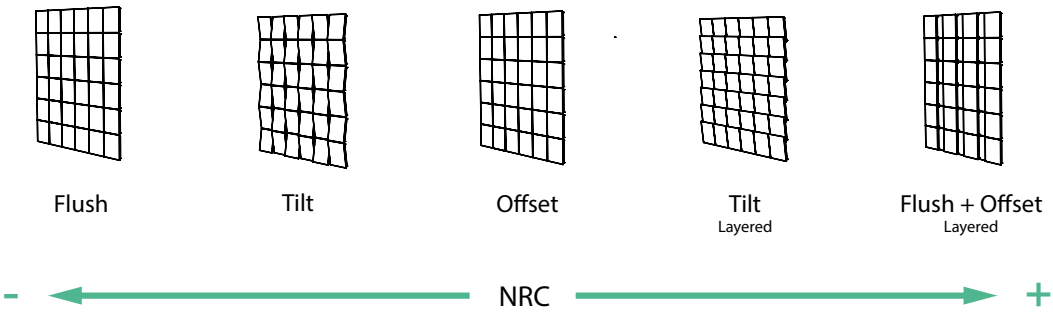
The above dimensions should consider the levelness of the site and should be measure from the highest point at the ground level and the lowest ceiling point over the width of the compositions.

Wall Flatness

The wall to be installed on needs to be flat, it cannot have significant bowing, peaks or valleys.

planning with articulate (continued)

An Articulate composition NRC (noise reduction coefficient) rating may be improved based on the placement of tiles and the brackets used. Use the following chart as a guide to understand how a compositions NRC rating may be improved. Actual performance may vary due to site conditions or variations in a specific composition.

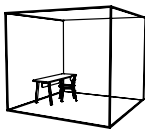


NRC	0.95	1.00	1.05	1.05	1.10
Tile Type(s)	100% Flush	100% Tilt	100% Offset	100% Tilt	57% Offset 43% Flush
Tile Layering	No	No	No	Yes	Yes
Approx. Coverage	9'x9'	9'x9'	9'x9'	8.5'x9'	8'x9'
# of tiles	36	36	36	42	42

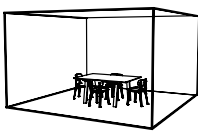
planning with articulate (continued)

The following outlines 3 common types of office spaces that commonly experience reverberation issues.

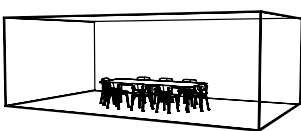
Use these chart to help gain an understanding of how coverage can help reduce reverberation in each scenario. Depending on the various attributes of any given space such as size, building materials and furniture, the recommended number panels and suggested wall coverage can vary.



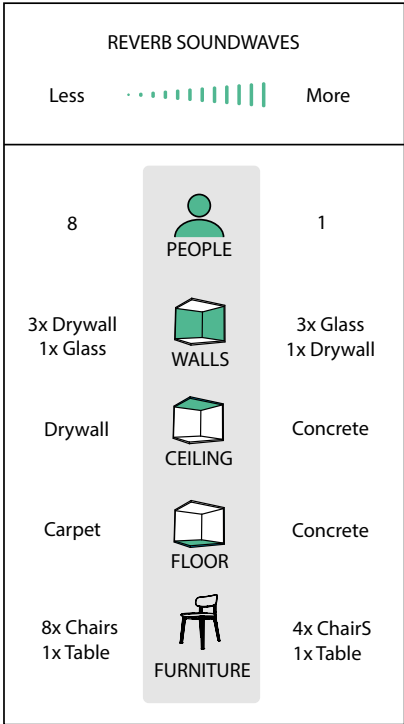
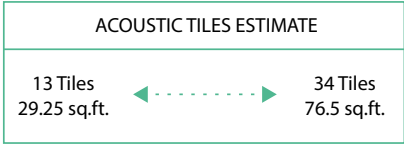
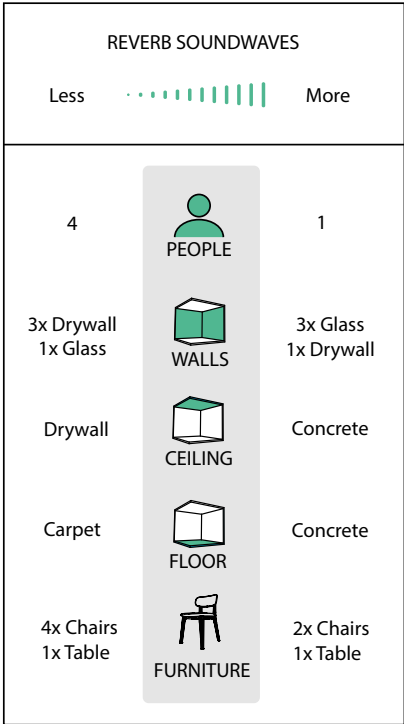
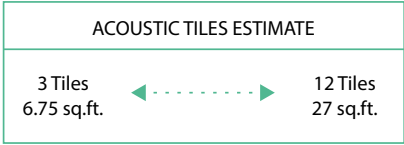
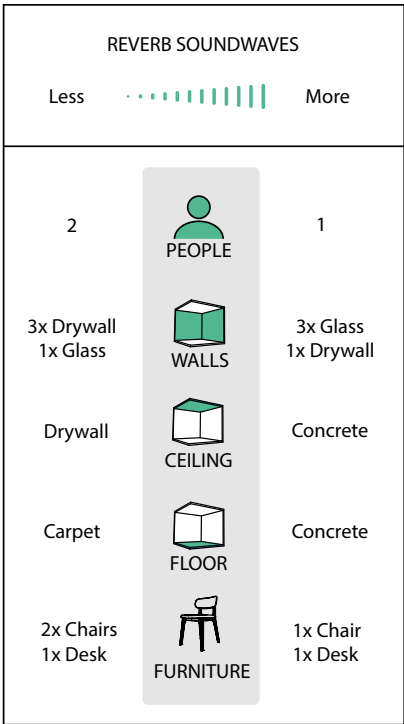
Small Office
Area - 10' W x 10' D x 9'H



Meeting Room
Area - 15'W x 15'D x 9'H



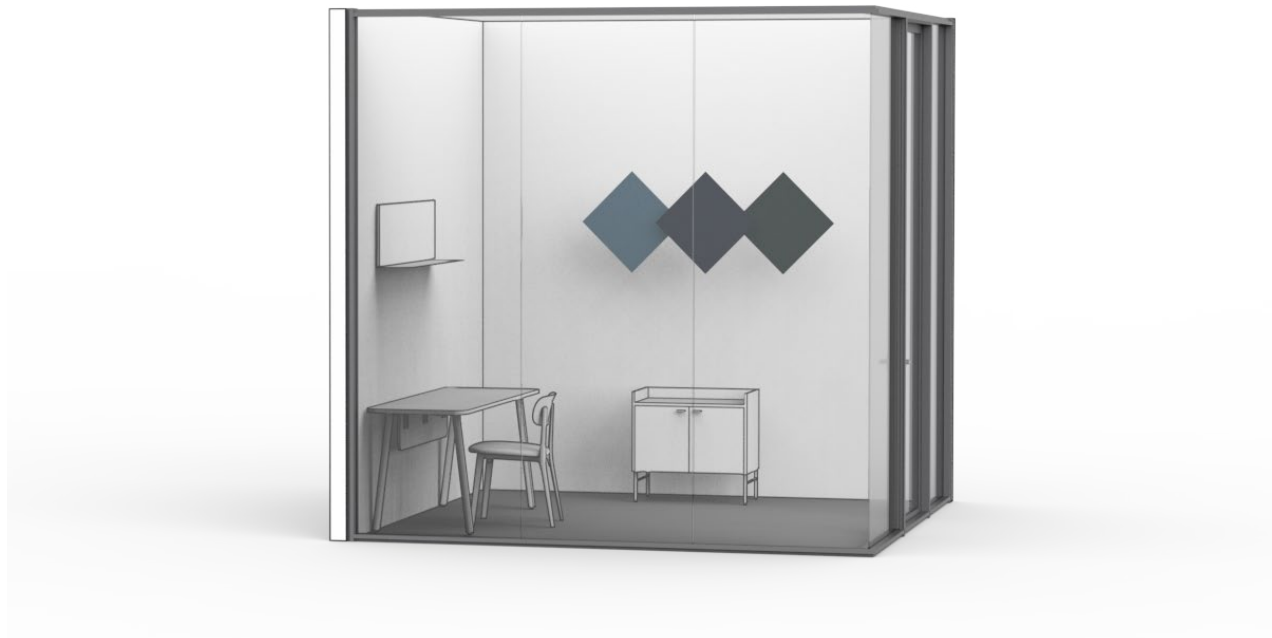
Boardroom
Area - 25'W x 15'D x 9'H



Note: This chart should be used as a reference only as results may vary. For the most accurate calculation and best performance a real world on site test should be performed to identify the optimum number of panels

planning with articulate examples

The following are compositional examples in common spaces.



Small Office - 3 Tiles



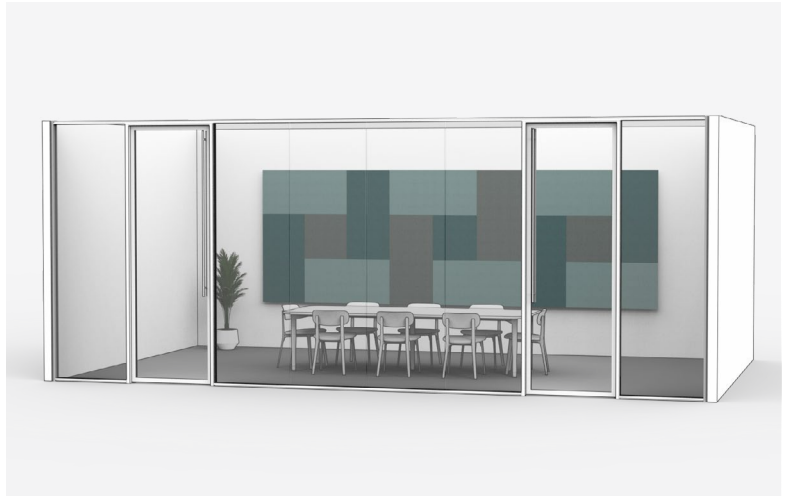
Meeting Room - 24 tiles

planning with articulate examples (continued)

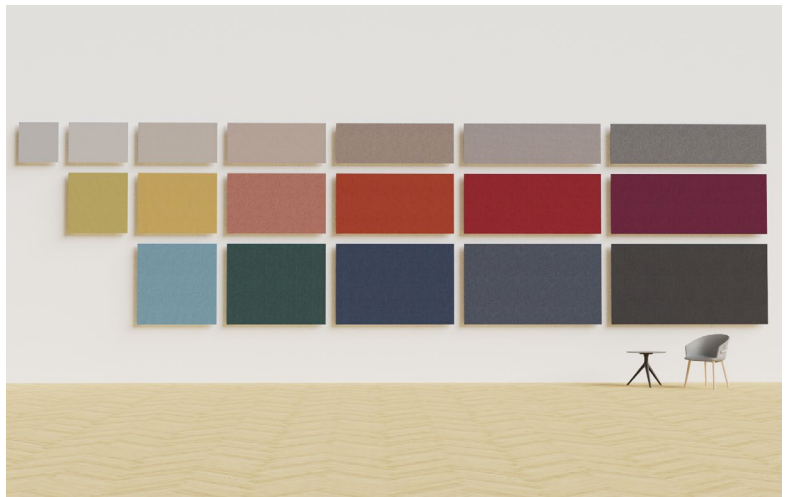


Boardroom - 60 tiles

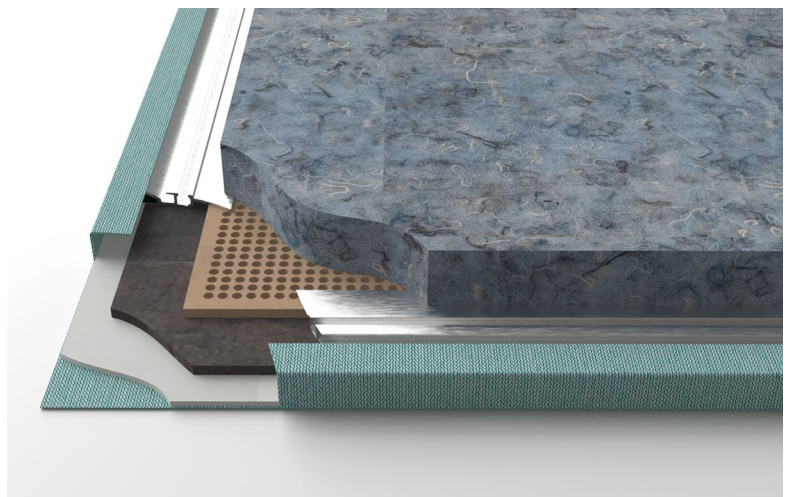
Clarify is an acoustic panel system ideal for medium to large scale rooms. It optimizes sound absorption through large surface area coverage.



Clarify is offered in 18 discrete panel sizes, based on a 12" increment logic. Panel sizes are available in landscape or portrait format and can be combined to create limitless compositions.



Clarify panels protrude 2-1/8" from the building wall and are constructed of fabric, fiberglass, perforated MDF and cotton insulation within an aluminum frame for optimal sound absorption.



clarify idea starters

The following shows examples of the types of compositions that are possible with Clarify acoustic panels.



Integrated Composition - Portrait



Integrated Composition - Landscape



Integrated Composition - Portrait & Landscape

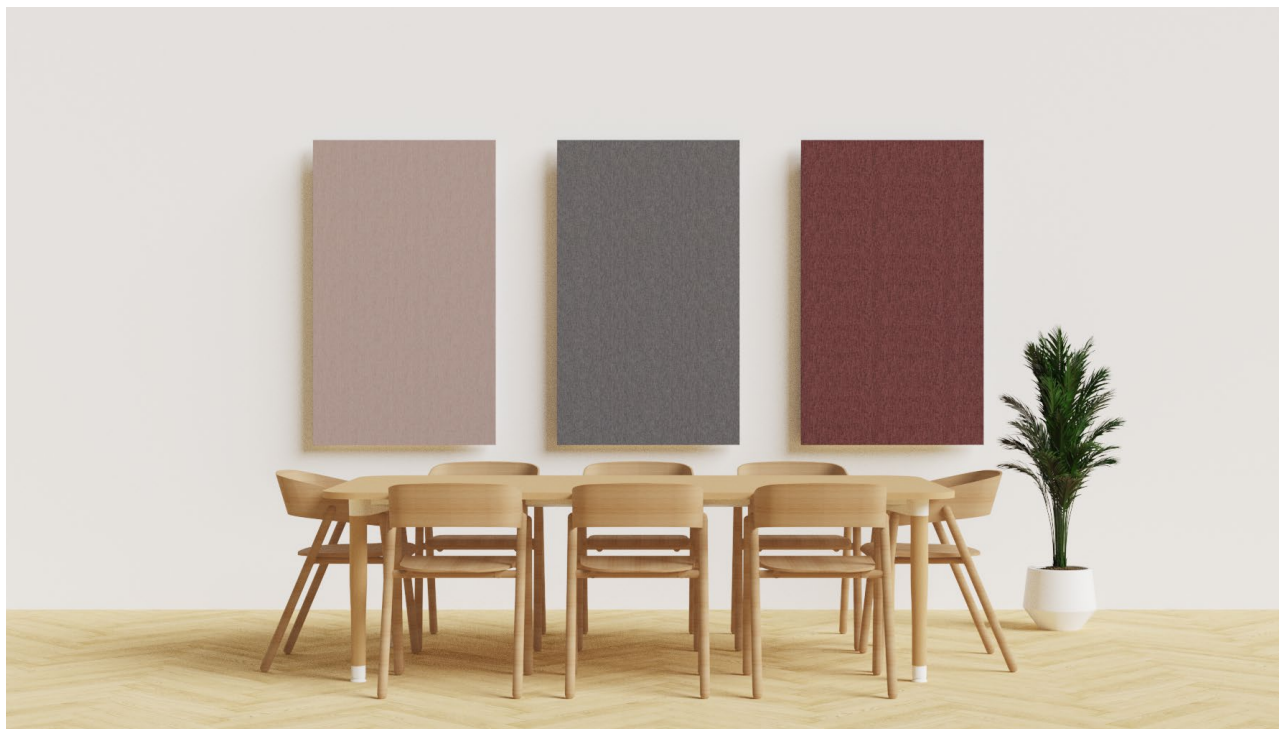


Integrated Composition - Landscape

clarify idea starters

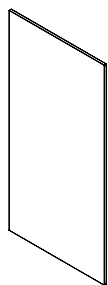
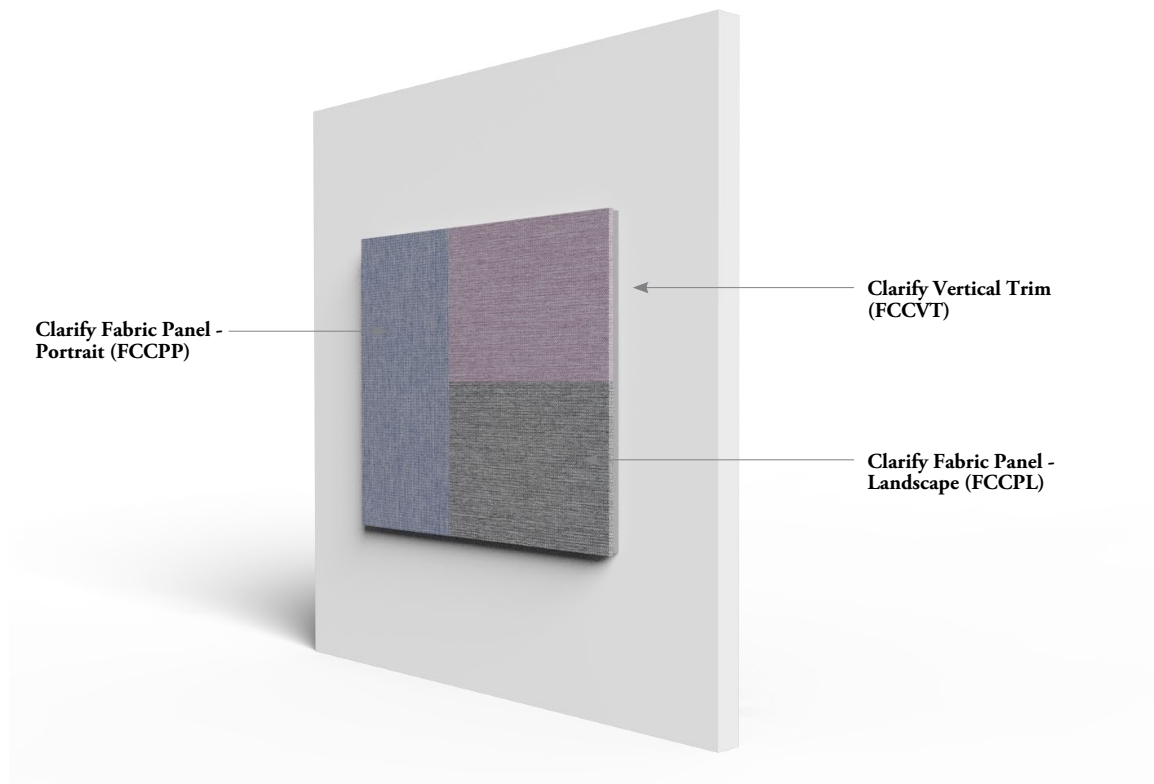


Independent Composition - Portrait



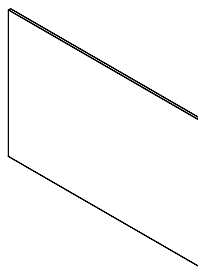
Independent Composition - Portrait

Clarify consists of the following discrete elements.



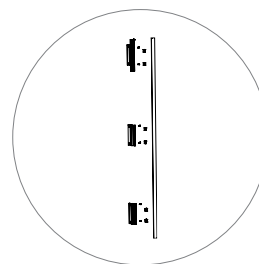
Clarify Fabric Panel - Portrait (FCCPP)

- Fabric panel for portrait orientation
- Height: 24", 36", 48", 60", 72", 84", 96"
- Width: 24", 36", 48"
- Finish: Architectural Fabric



Clarify Fabric Panel - Landscape (FCCPL)

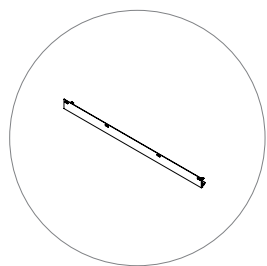
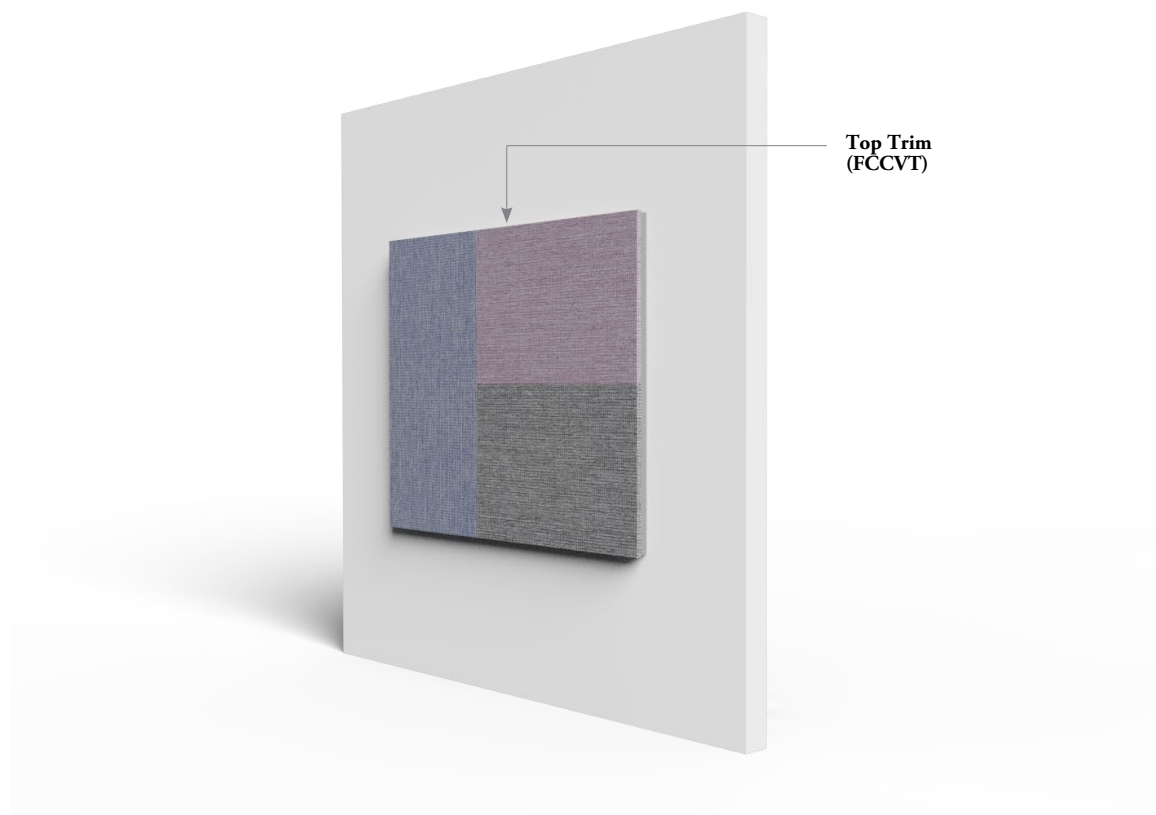
- Fabric panel for landscape orientation
- Height: 24", 36", 48"
- Width: 24", 36", 48", 60", 72", 84", 96"
- Finish: Panel Fabric



Clarify Vertical Trim (FCCVT)

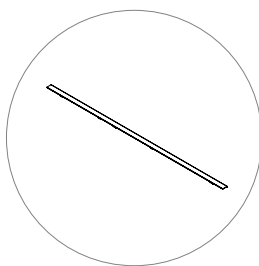
- Vertical edge trim for panel composition
- Factory cut
- Length: 24", 36", 48", 60", 72", 84", 96", 108", 120"
- Finishes: Foundation, Accent, Mica or Clear Anodized

clarify basics (continued)



Clarify Horizontal Rail (FCCHR)

- Horizontal rail system to mount top and bottom of acoustic panel
- Factory cut, 120" length cut on site when required
- Type: Top or Bottom
- Length: 24", 36", 48", 120"



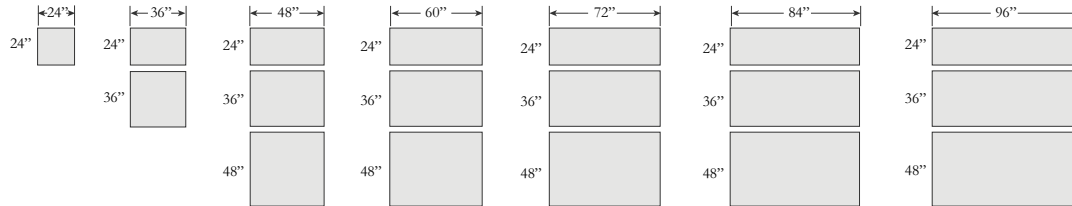
Clarify Top Trim (FCCTT)

- Top edge trim for panel composition (optional item)
- Factory cut, 120" length cut on site when required
- Length: 24", 36", 48", 120"
- Finishes: Foundation, Accent, Mica or Clear Anodized

The following visually outlines Clarify panel sizes, orientation formats and fabric directionality.

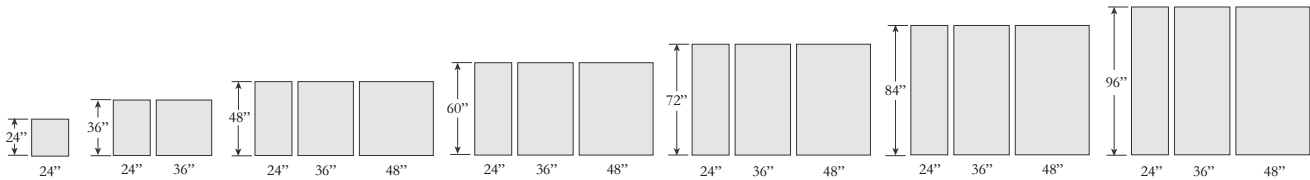
landscape

Landscape panels always use panel fabrics and are applied railroad.




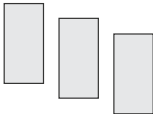

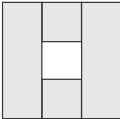
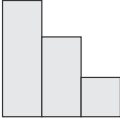
portrait

Portrait panels always use architectural fabrics and are applied off-the-bolt.



planning with clarify

The following outlines the compositions possibilities and restrictions with Clarify panels.

TYPE	EXAMPLE	APPROVAL	NOTES
Independent Panels: Aligned		✓	Multiple separate panels with tops aligned. Any mix of panel sizes.
Independent Panels: Staggered		✓	Multiple separate panels with tops at various heights. Any mix of panel sizes.
Integrated Panels: Rectangular/Square		✓	Compositions with multiple panels that are integrated to create a rectangle or square with no gaps between panels. Any mix of panel sizes.
Integrated Panels: Incomplete Rectangular/ Square		✗	Compositions with multiple panels that are integrated to create a rectangle or square but contains voids between panels.
Integrated Panels: Staggered/Irregular		✗	Compositions with multiple panels that are integrated but do not create a complete rectangle or square composition.

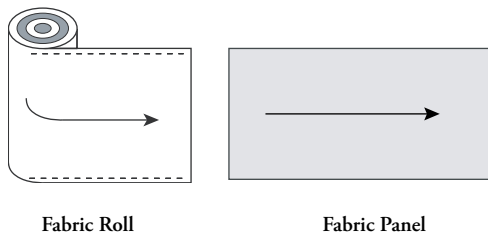
planning with clarify (continued)

When creating compositions that incorporate both portrait and landscape panels special considerations for fabric direction and selection apply.

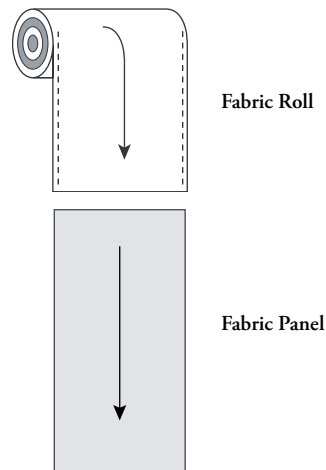
fabric direction:

The fabric direction will vary when mixing landscape and portrait panels, as seen in the example below. Landscape panels have the fabric applied railroad and portrait panels have the fabrics applied off the bolt.

Landscape Panel

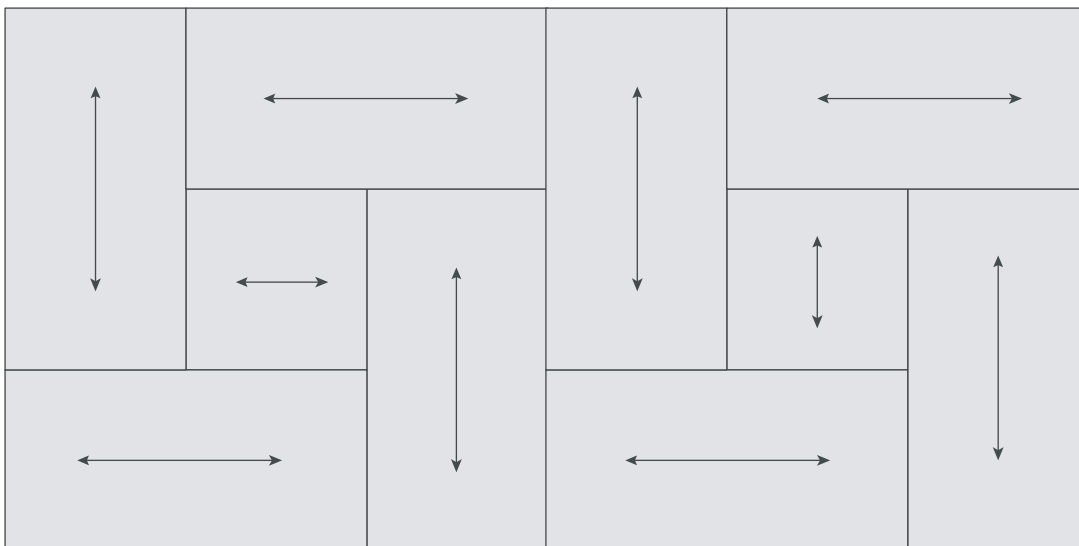


Portrait Panel



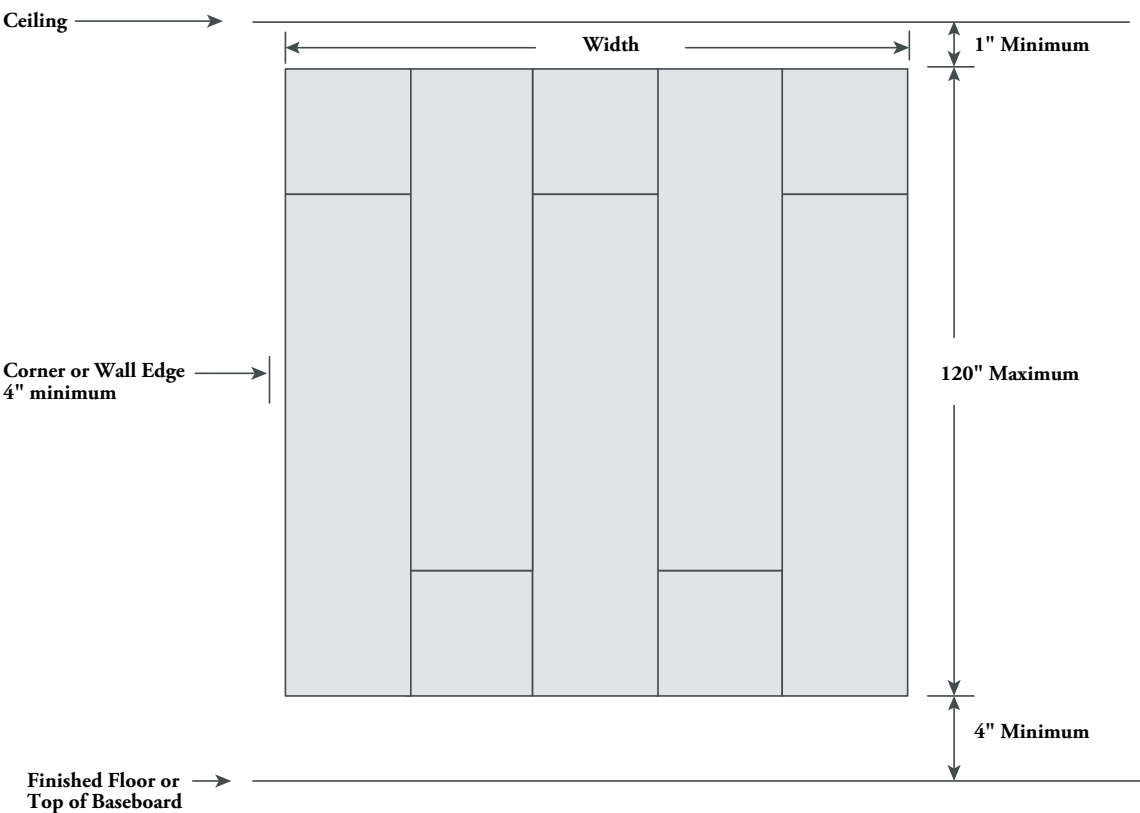
fabric selection:

For compositions that mix landscape and portrait panels it should be noted that not all the same fabric options are available.



planning with clarify (continued)

The following describes the planning restrictions of Clarify in respect to integrated compositions and placement relative to the base building.



Width

There is no limit to the width of an integrated composition. Due to various fabric thicknesses based on fabric type a +/- of 3/16" per every 10' of linear length in a composition should be considered.

Depth

When combining more than one type of fabric in a composition the fabric thicknesses should be considered. A minute variance may be visible when two panels with different thicknesses are placed side by side.

Height

Integrated composition height is limited to 120".

Top to Ceiling Spacing

1" minimum to allow room for install.

Bottom to Floor or Baseboard Spacing

4" minimum to allow room for leveling and install.

Corner or Wall Edge

4" minimum of setback to allow room for install and prevent obstructions.

Site Level

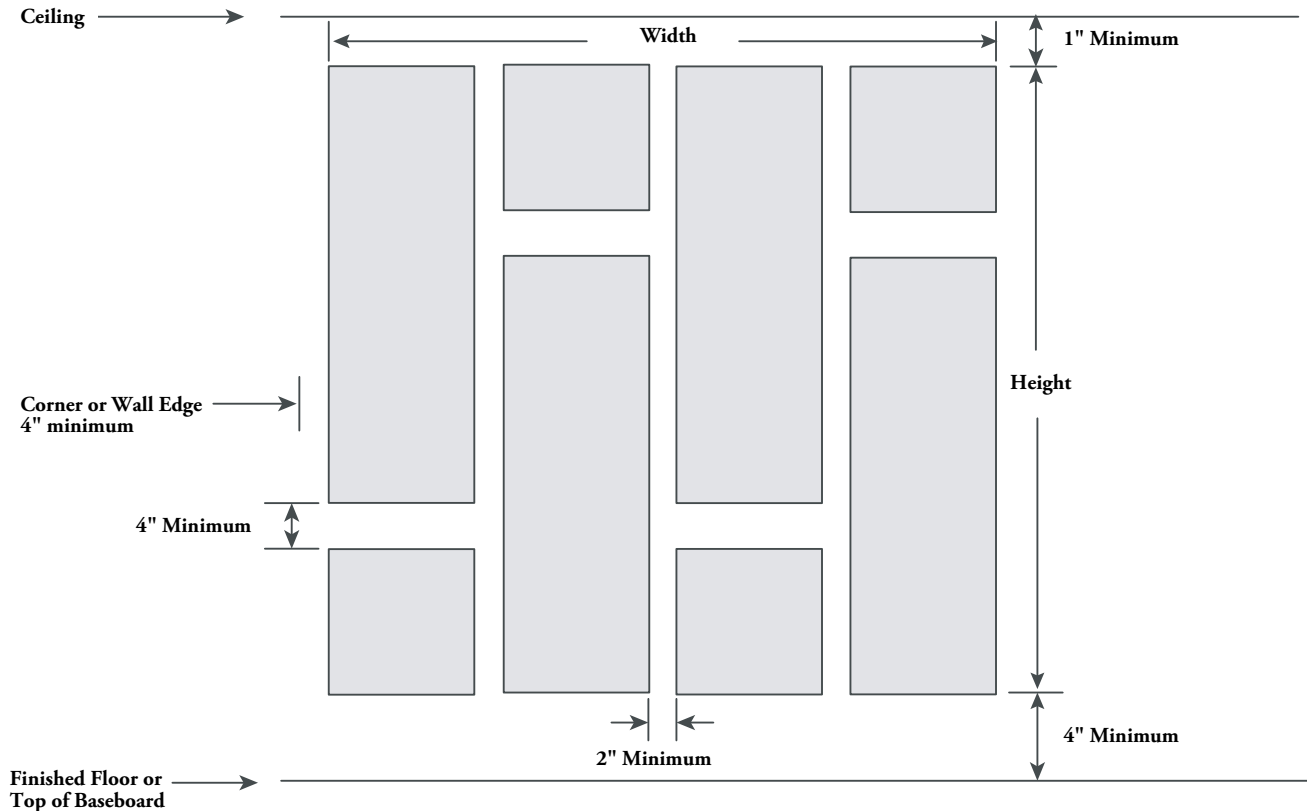
The above dimensions should consider the levelness of the site and should be measure from the highest point at the ground level and the lowest point from the ceiling over the width of the compositions.

Wall Flatness

The wall to be installed on needs to be flat, it cannot have significant bowing, peaks or valleys.

planning with clarify (continued)

The following describes the planning restrictions of Clarify in respect to independent compositions and placement relative to the base building.



Width

There is no limit to the width of an integrated composition. Due to various fabric thicknesses based on fabric type a +/- of 3/16" per every 10' of linear length in a composition should be considered.

Depth

When combining more than one type of fabric in a composition the fabric thicknesses should be considered. A minute variance may be visible when two panels with different thicknesses are placed side by side.

Height

There is no limit to the height of an independent composition.

Top to Ceiling Spacing

1" minimum to allow room for install.

Bottom to Floor or Baseboard Spacing

4" minimum to allow room for leveling and install.

Panel to Panel - Top to Bottom Spacing

4" minimum to allow room for leveling and install.

Panel to Panel - Side to Side Spacing

2" minimum to allow room to install side trim.

Corner or Wall Edge

4" minimum of setback to allow room for install and prevent obstructions.

Site Level

The above dimensions should consider the levelness of the site and should be measure from the highest point at the ground level and the lowest point from the ceiling over the width of the compositions.

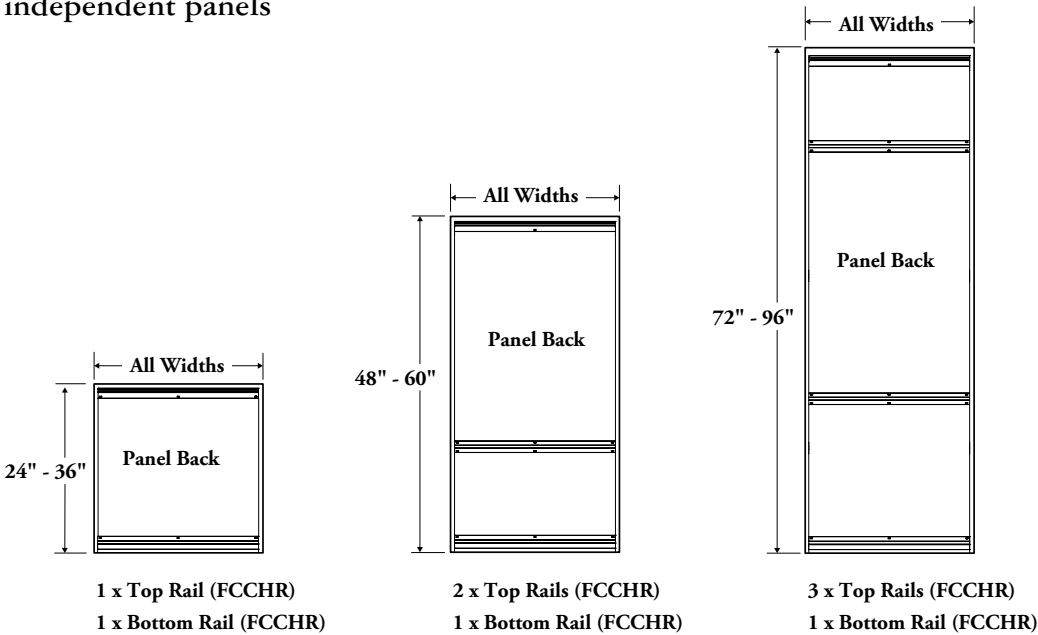
Wall Flatness

The wall to be installed on needs to be flat, it cannot have significant bowing, peaks or valleys.

planning with clarify (continued)

The following planning guides for Clarify describe how to apply rails and trims.

independent panels



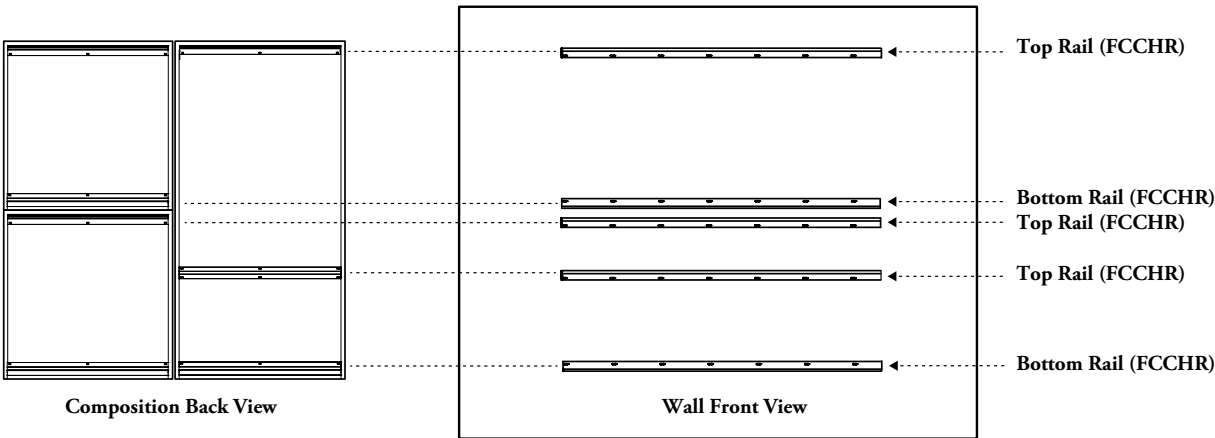
Horizontal Rails

The above lists indicate the rail types and quantities required for the installation of each panel in relation to its height. Each rail length needs to equal the panel width.

Trims

Each panel requires 2 x Vertical Trims (FCCVT), 1 on the left and right. Trim length needs to match the height of the panel. 1 x Top Trim (FCCTT) (optional) can be selected if panel will be viewed from high vantage points.

integrated compositions



Horizontal Rails

The above images indicates an example of the rail types and quantities required for the installation of an Integrated Compositions. Each individual panel in a composition must attach to a FCCHR - Bottom Rail. All individual panels are required to attach to a FCCHR Top Rail plus any additional where required for support based on each individual panels height. Refer to the independent panel examples for quantities. Regardless of a panel placement and width all rails must be the full length of the composition. For compositions that exceed 120" in width, additional rails will be required.

Trims

Each composition requires 2 x FCCVT Vertical Trims, 1 on the left and right. Length needs to match the height of the composition. FCCTT Top Trim (optional) can be selected if panel will be viewed from high vantage points.

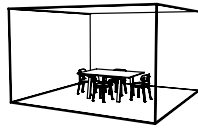
planning with clarify (continued)

The following outlines three common types of office spaces that commonly experience reverberation issues.

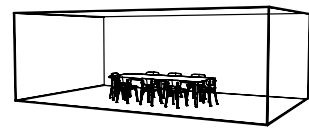
Use these chart to help gain an understanding of how coverage can help reduce reverberation in each scenario. Depending on the various attributes of any given space such as size, building materials and furniture, the recommended number panels and suggested wall coverage can vary.



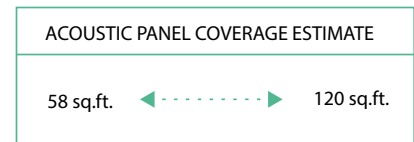
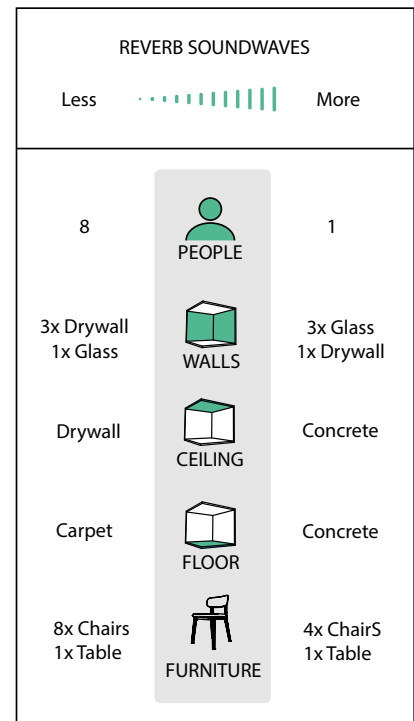
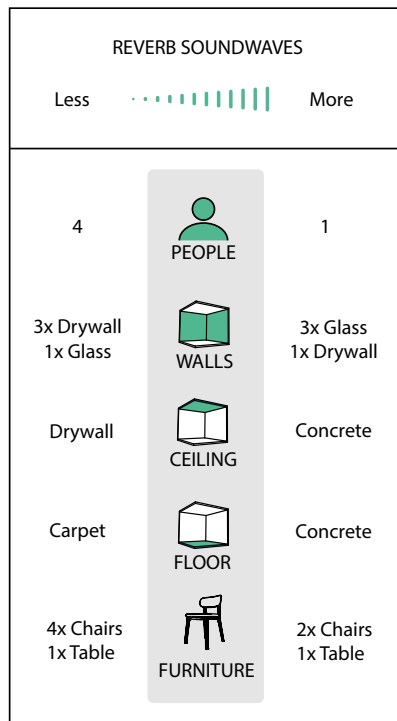
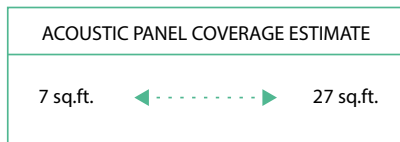
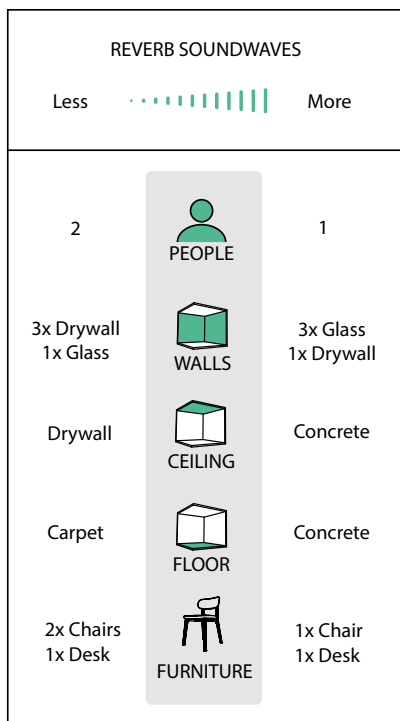
Small Office
Area - 10' W x 10' D x 9'H



Meeting Room
Area - 15'W x 15'D x 9'H



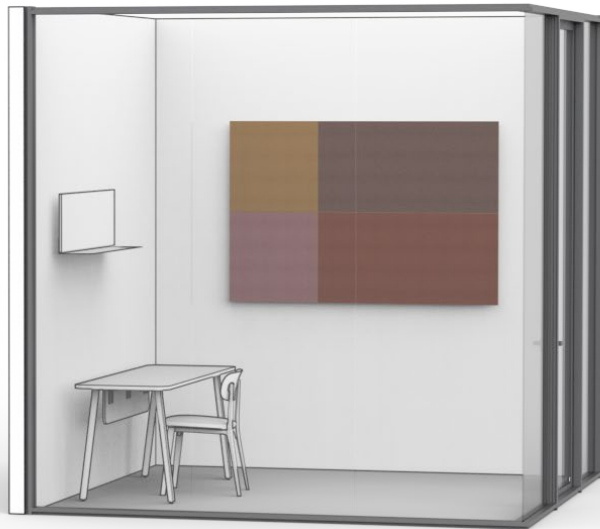
Boardroom
Area - 25'W x 15'D x 9'H



Note: This chart should be used as a reference only as results may vary. For the most accurate calculation and best performance a real world on site test should be performed to identify the optimum number of panels.

planning with clarify examples

The following are compositional examples in common spaces.



Small Office - 24 square feet



Meeting Room - 40 square feet

planning with clarify examples (continued)



Boardroom - 108 square feet

The following outlines the key concepts behind Architectural Complements Mullion Program.



universal

Mullions are simple, non-structural trim elements that can be surface applied to glass.

This construction approach allows mullions to have a wide application across all of Teknion's storefronts, including Optos, Focus and Tek Vue.

flexible

Mullions can be applied to new and existing storefront installations. Cut on site from 10' lengths, these trim elements can easily respond to any on-site discrepancies for ultimate flexibility.

bespoke

Mullions bring a customized look and feel to typical glazing construction. An array of vertical and horizontal patterns can be created, tailored to suit any business or specific brand.

mullions idea starters

The following shows examples of the types of patterns and compositions that are possible with surface applied mullions.



Vertical Applied Mullion



Horizontal Applied Mullion

mullions idea starters (continued)



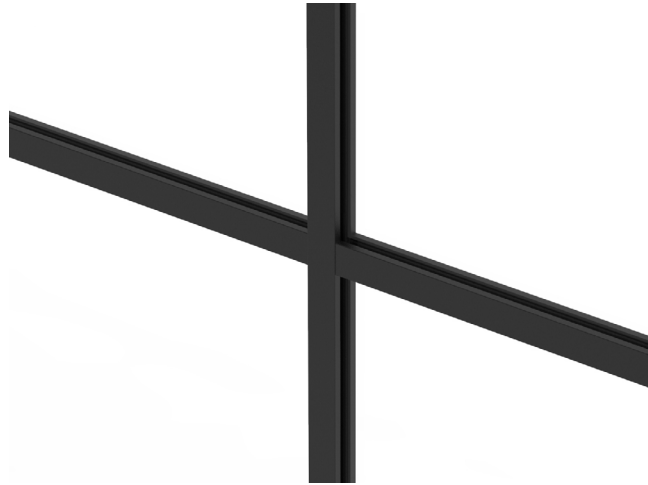
**Vertical & Horizontal Applied Mullion
(Grid Pattern)**



**Vertical & Horizontal Applied Mullion
(Staggered Pattern)**

understanding the 1" x 1" mullion

The 1" x 1" Mullion provides a thin, low profile aesthetic which can be surface applied to all of Teknion's storefront programs.



When applied to both sides of glass, this mullion assembly has an overall nominal thickness of 1" and a nominal width/height of 1".

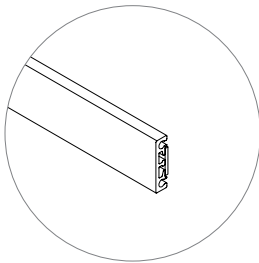


With a low profile option for walls and doors, 1" x 1" mullions allow for a diverse range of applications.



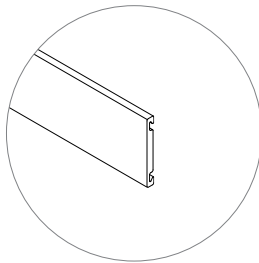
1" x 1" mullion basics

The 1" x 1" mullion consists of the following discrete elements.



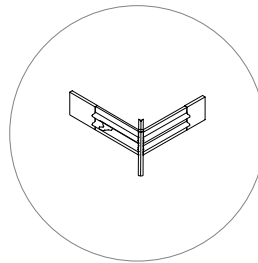
1" x 1" Inline Mullion (FCMN)

- Mullion kit for horizontal or vertical inline application
- Consists of one 120" extrusion applied with tape to interior and exterior of glass
- Cut to length on site
- Length: 120"
- Finish: Anodized or Painted



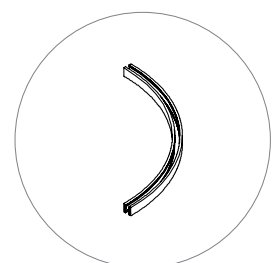
1" x 1" Inline Door Mullion (FCMD)

- Mullion kit for horizontal or vertical inline application
- Consists of one 120" extrusion applied with tape to interior and exterior of glass
- Cut to length on site
- Length: 120"
- Finish: Anodized or Painted



1" x 1" Mullion Horizontal Corner Kit (FCMH)

- Safety splice for horizontal mullion in 90° corner applications
- Kit includes one exterior corner splice for one individual corner
- Finish: Painted

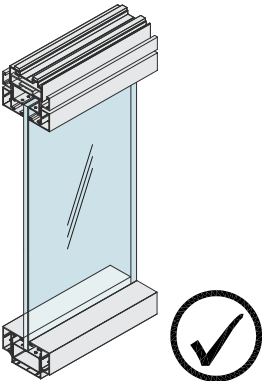
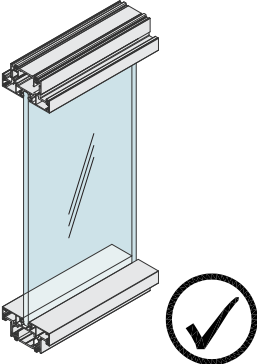
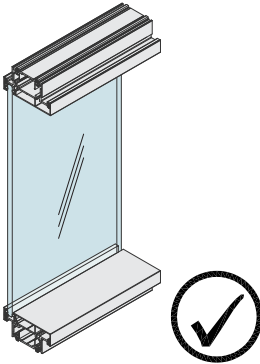
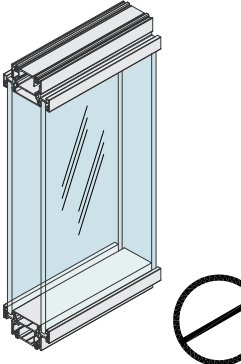
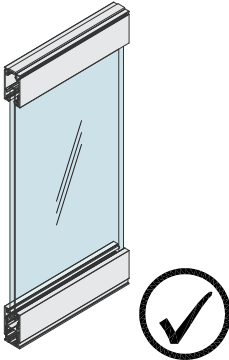


1" x 1" Curved Mullion (FCCM)

- Mullion kit for horizontal curved applications
- Consists of two curved extrusions applied with tape to interior and exterior of glass
- Radius available from 15" to 48"
- Angle: 90°
- Finish: Painted

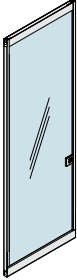
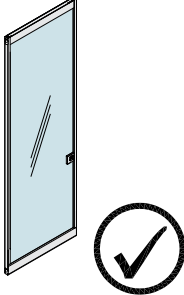

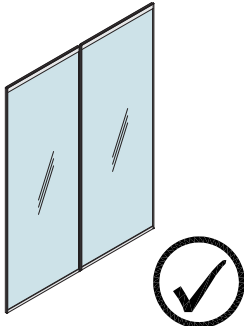
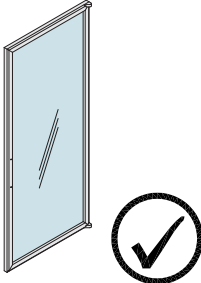
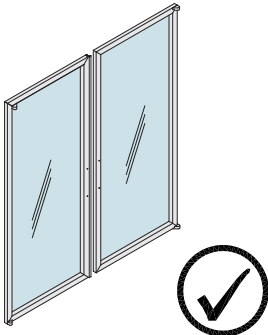

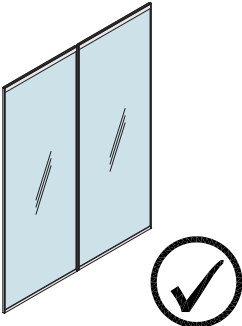
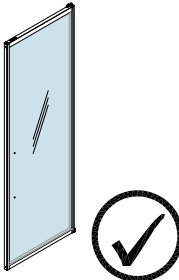
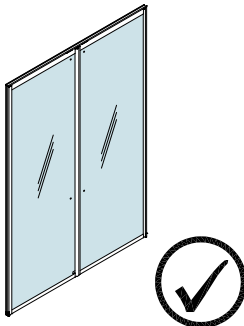
planning with 1" x 1" mullion

The following outlines the Teknion wall systems and the rules and restrictions when planning with the 1" x 1" mullion.

Wall Application	1" x 1" Mullion (FCMN)		
Optos	<div><p>Single Center Glass (10mm or 12mm)</p></div>		
Focus	<div><p>Single Center Glass (10mm or 12mm)</p></div>	<div><p>Single Offset Glass (10mm or 12mm)</p></div>	<div><p>Double Glazed (10mm or 12mm)</p></div>
TekVue	<div><p>Single Center Glass (10mm or 12mm)</p></div>		

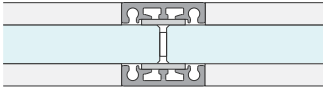

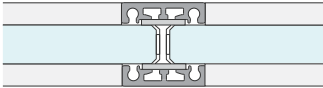

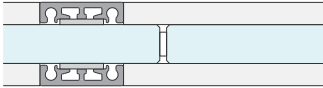
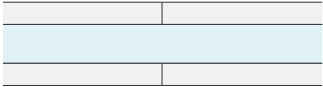

planning with 1" x 1" door mullion

The following outlines the Teknion door leafs that are possible to plan with the 1" x 1" door mullion. Please note, door leaf must have framed construction to accommodate 1" x 1" door mullion.

Door Application	1" x 1" Door Mullion (FCMD)			
Optos	 <p>Glass Framed Pivot Door (10mm)</p>	 <p>Glass Framed Pivot Door (12mm)</p>		
Focus	 <p>Single Leaf Sliding Door Framed</p>	 <p>Double Leaf Sliding Door Framed</p>	 <p>Single Leaf Single Glazed Pivot Door</p>	 <p>Double Leaf Single Glazed Pivot Door</p>
TekVue	 <p>Framed Barn Door Leaf Single</p>	 <p>Framed Barn Door Leaf Double</p>	 <p>Framed Pivot Door Leaf Single</p>	 <p>Framed Pivot Door Leaf Double</p>

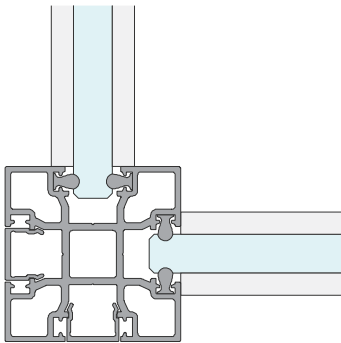

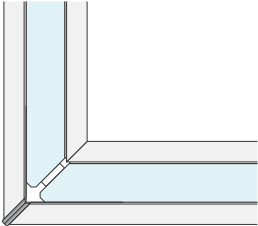

planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to inline glass.

Wall Application	Inline Glass	Restrictions
Vertical On Module with Glass Seam (FCMN) Tape Connector		
Vertical On Module with Glass Seam (FCMN) Plastic Connector		
Vertical Off Module with Glass Seam (FCMN) Tape or Plastic Connector		 Possible but not visually recommended
Horizontal Splice (FCMN and FCMD)		 Possible but not visually recommended

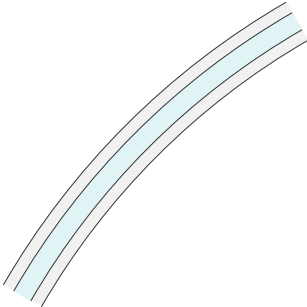

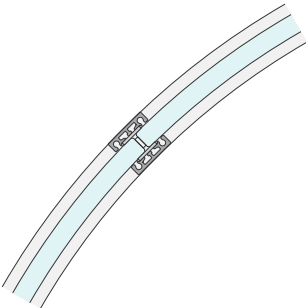

planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to 90° glass.

Wall Application	90° Glass	Restrictions
Vertical Corner Connection / Transition (Optos, Focus or Tek Vue)		
Horizontal Mitered Corner (FCMN) With 1" x 1" Mullion Horizontal Corner Kit (FCMH) Tape or plastic Connector		

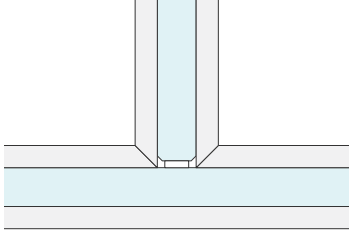

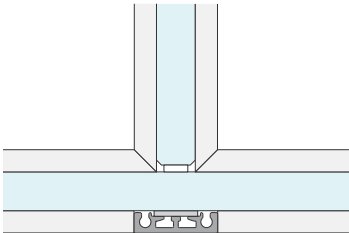

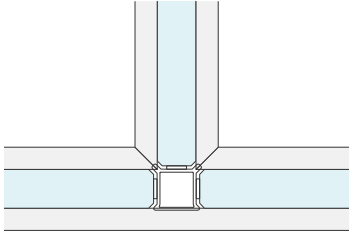

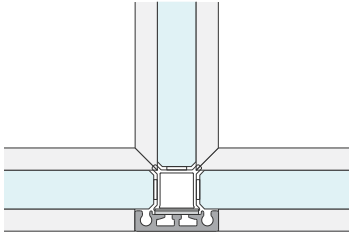

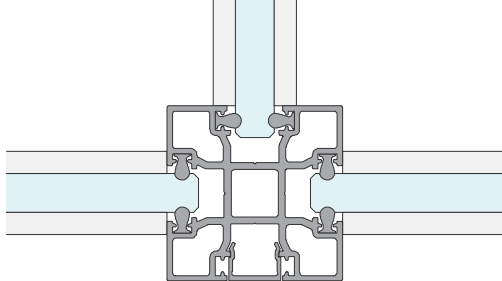

planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to 90° curved glass.

Wall Application	Curved Glass	Restrictions
Horizontal Curved Tape Connector (Tek Vue only)		
Vertical On Module with Glass Seam Tape Connector (Tek Vue only)		

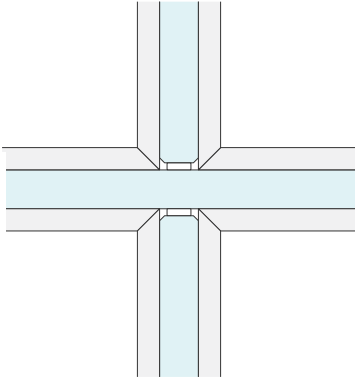

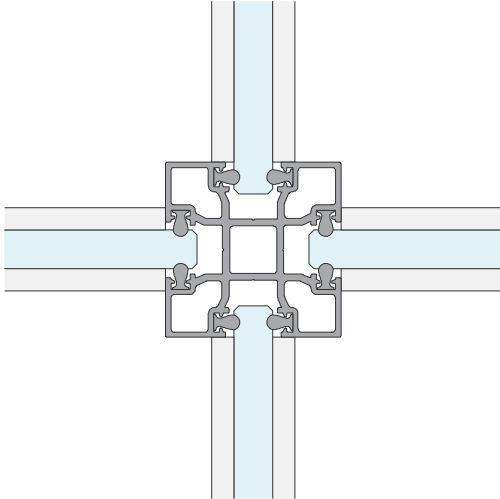

planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to Three-Way glass.

Wall Application	Three-Way Glass	Restrictions
Inline Horizontal (FCMN) Tape Connector		
Inline Vertical (FCMN) Tape Connector		
Inline Horizontal (FCMN) Plastic Connector		
Inline Vertical (FCMN) Plastic Connector		
Vertical Corner Connection / Transition (Optos, Focus or Tek Vue)		

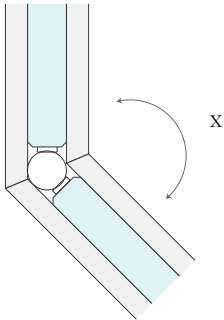

planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to Four-Way glass.

Wall Application	Four-Way Glass	Restrictions
Horizontal Miter (FCMN) Tape Connector		
Vertical Corner Connection / Transition (Optos, Focus or Tek Vue)		

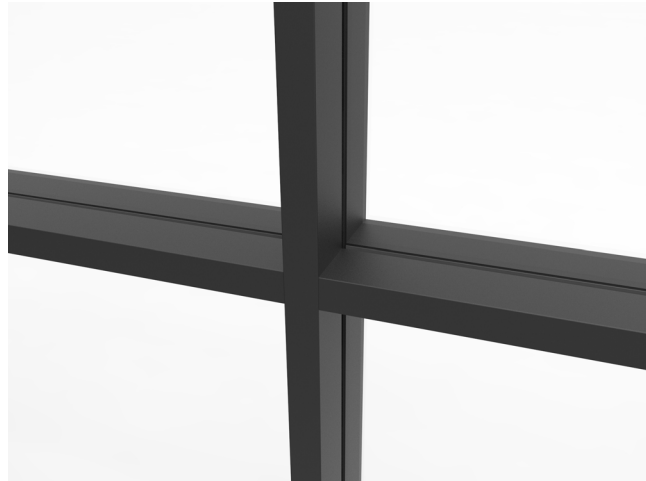
planning with 1" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 1"x1" mullion to variable angle glass.

Wall Application	Variable Angle	Restrictions
Horizontal Miter (FCMN) Plastic Connector		 X: Recommended minimum of 135° to avoid sharp corner

understanding the 4" x 1" mullion

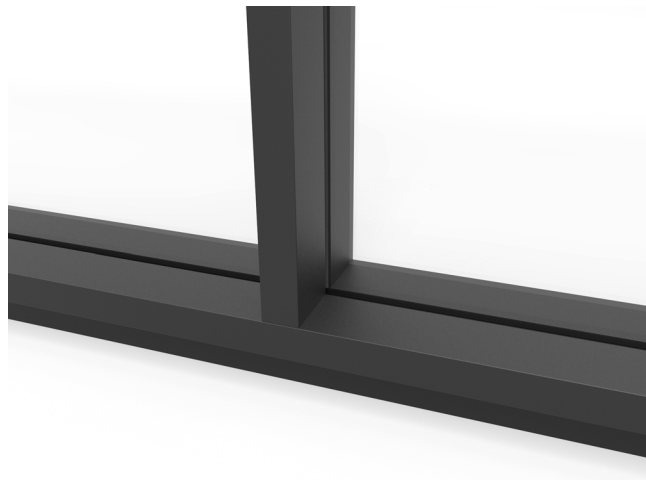
The 4" x 1" mullion provides a structural aesthetic which can be surface applied to certain Teknion storefront programs.



When applied to both sides of glass, this mullion assembly has an overall nominal thickness of 4" and a nominal width/height of 1".

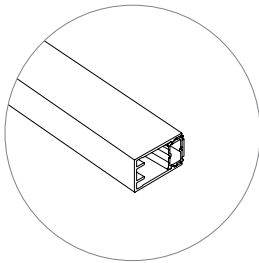
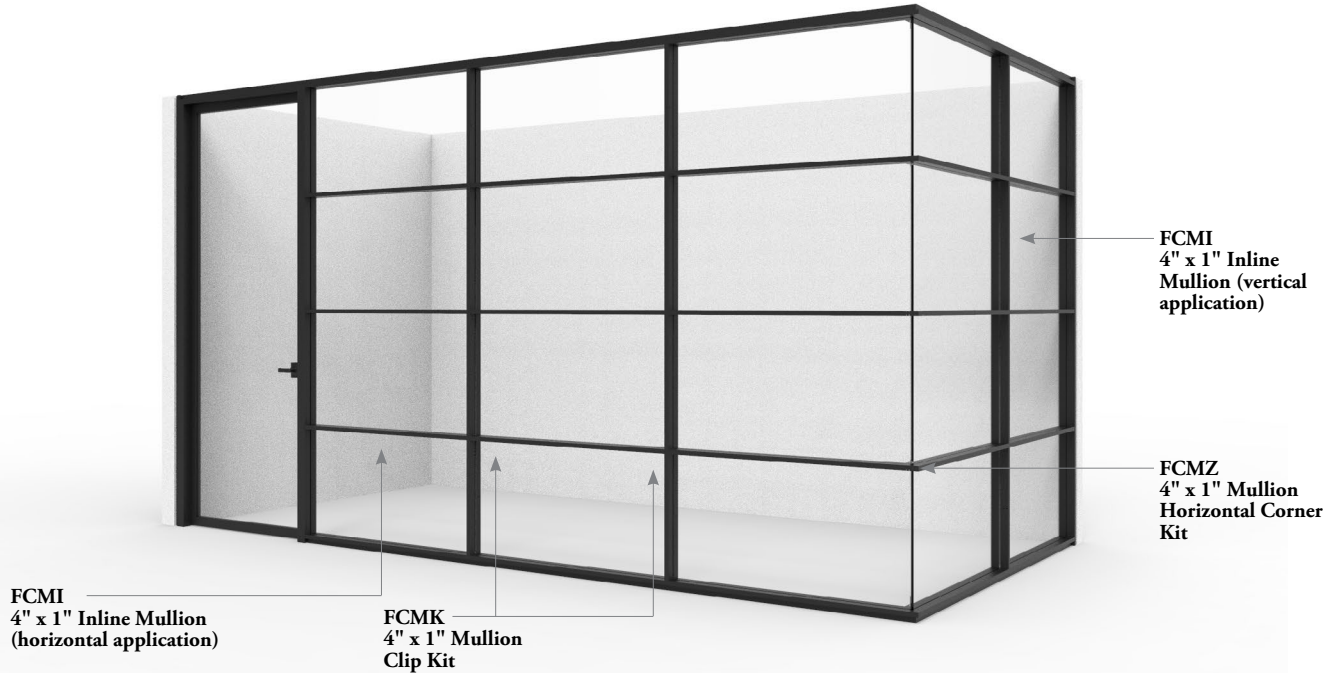


Its larger profile makes the design applicable to 4" thick walls only.



4" x 1" mullion basics

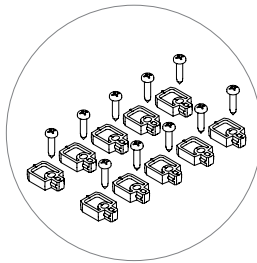
The 4" x 1" mullion consists of the following discrete elements.



4" x 1" Inline Mullion (FCMI)

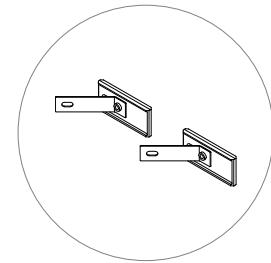
- Mullion kit for horizontal or vertical inline application
- Consists of one 120" extrusion applied with tape to interior and exterior of glass
- Cut to length on site
- Length: 120"
- Finish: Anodized or Painted

NOTE: 4" x 1" Mullion Clip Kit (FCMK) is required



4" x 1" Mullion Clip Kit (FCMK)

- Mechanical clips to secure ends of 4" x 1" mullion components
- Kit consists of ten clips
- One clip used for every mullion end cut

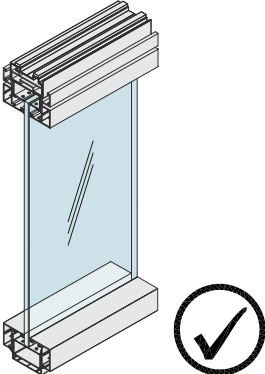
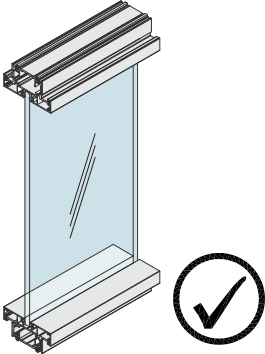
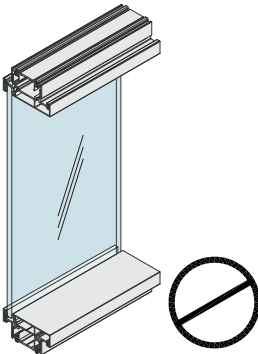
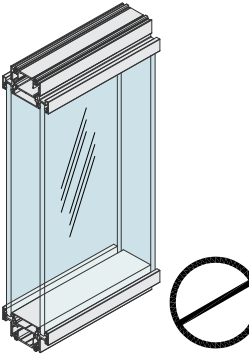
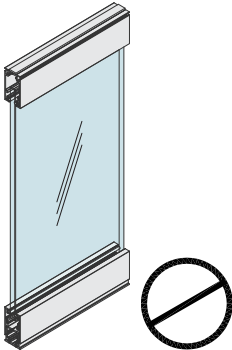


4" x 1" Mullion Horizontal Corner Kit (FCMZ)

- Safety splice for horizontal mullion in 90° corner applications
- Kit includes one interior and exterior corner splice and mounting hardware for one individual corner
- Finish: Painted

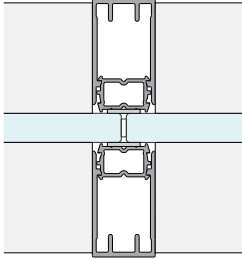

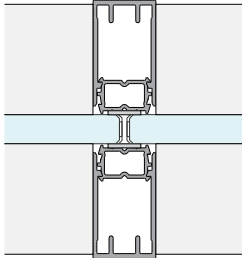

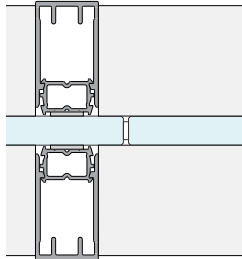

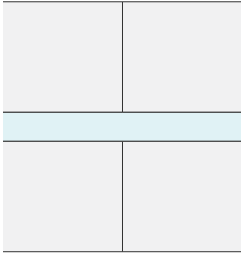

planning with 4" x 1" mullion

The following outlines the Teknion wall systems and the rules and restrictions when planning with the 4" x 1" mullion. Please note the 4" x 1" mullion cannot be applied to door leaves.

Wall Application	4" x 1" Mullion		
Optos	<div><p>Single Center Glass (10mm or 12mm)</p></div>		
Focus	<div><p>Single Center Glass (10mm or 12mm)</p></div>	<div><p>Single Offset Glass (10mm or 12mm)</p></div>	<div><p>Double Glazed (10mm or 12mm)</p></div>
TekVue	<div><p>Single Center Glass (10mm or 12mm)</p></div>		

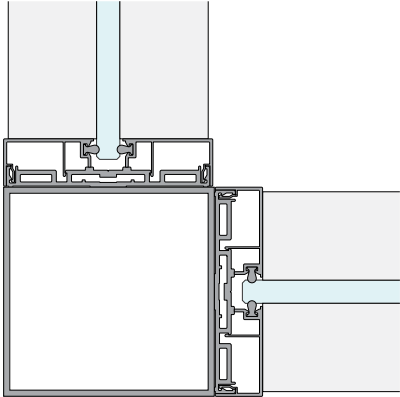

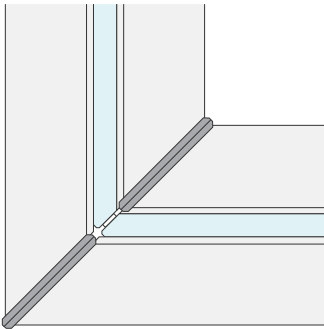

planning with 4" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 4"x1" mullion to inline glass.

Wall Application	Inline Glass	Restrictions
Vertical On Module with Glass Seam (FCMI) Tape Connector		
Vertical On Module with Glass Seam (FCMI) Plastic Connector		
Vertical Off Module with Glass Seam (FCMI) Tape or Plastic Connector		 Possible but not visually recommended
Horizontal Splice (FCMI)		 Possible but not visually recommended

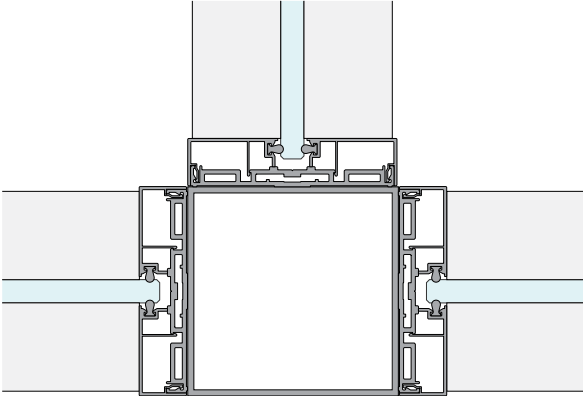

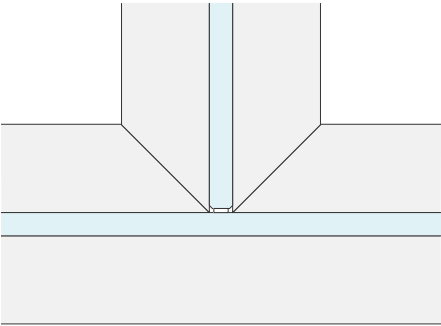

planning with 4" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 4"x1" mullion to 90° glass.

Wall Application	90° Glass	Restrictions
Vertical Corner Connection / Transition (Optos or Focus)		
Horizontal Mitered Corner (FCMI) with 4" x 1" Mullion Horizontal Corner Kit (FCMZ) Tape only		

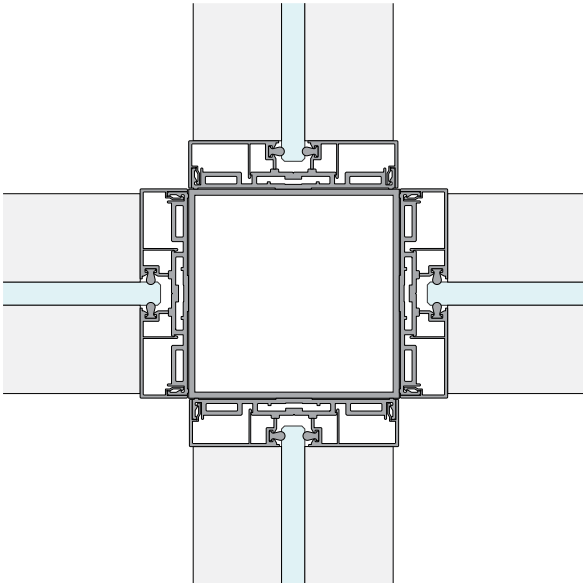

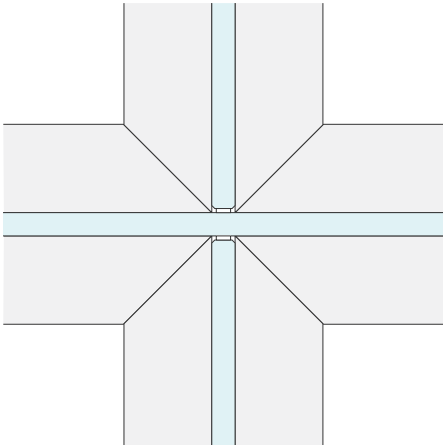

planning with 4" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 4"x1" mullion to Three-Way glass.

Wall Application	Three-Way Glass	Restrictions
Vertical Corner Connection / Transition (Optos or Focus)		
Inline Horizontal (FCMI) Horizontal Miter (FCMI)		

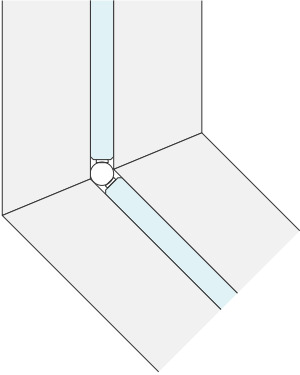

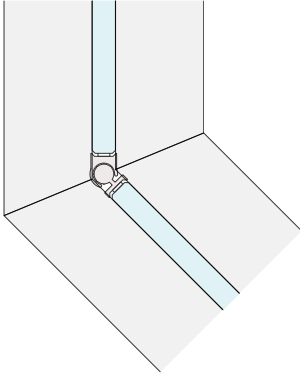

planning with 4" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 4"x1" mullion to Four-Way glass.

Wall Application	Four-Way Glass	Restrictions
Vertical Corner Connection / Transition (Optos or Focus)		
Horizontal Miter (FCMI)		

planning with 4" x 1" mullion (continued)

The following describes the rules and restrictions when applying the 4"x1" mullion to variable angle glass.

Wall Application	Variable Angle	Restrictions
Horizontal Miter (FCMI) Plastic Connector		
Horizontal Miter (FCMI) Aluminum Connector		

markerboard introduction

The following outlines the key concepts behind Architectural Complements Markerboard Program.



flexible

The markerboard program is a flexible product for specifying at the planning stage or afterwards as a retrofit option, giving you options to decide when to add it to your space.

adaptable

The markerboards accommodate a broad range of aesthetic, size, color and frame finish options. The program consists of the two distinct options of frameless and framed. The backpainted glass, trims and framing can be coordinated to match existing site color and finish palettes.

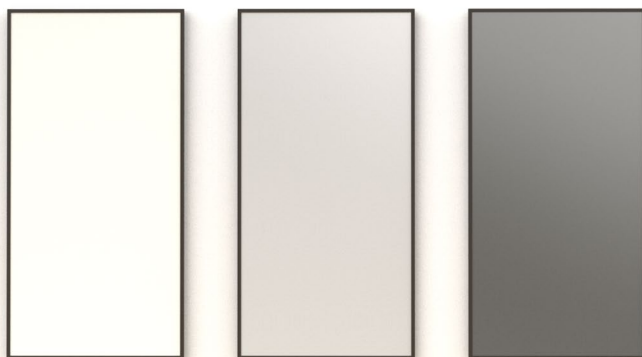
complement

Specific sizes and orientations of the markerboard can integrate with various walls and existing product lines which include drywall, Altos walls and POD.

markerboard introduction (continued)



Markerboard - Landscape

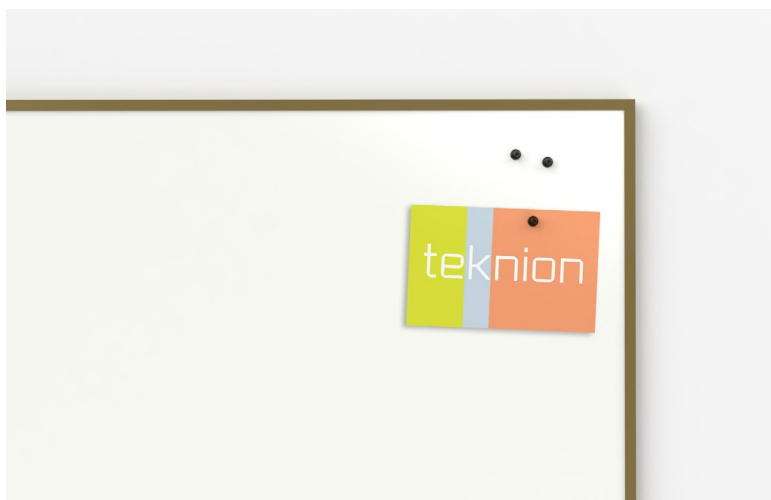


Markerboard - Portrait

understanding markerboards

Quality and Performance

The 6mm glass gives the markerboard a high quality appearance and a highly stain resistant surface. Every markerboard is magnetic by design.



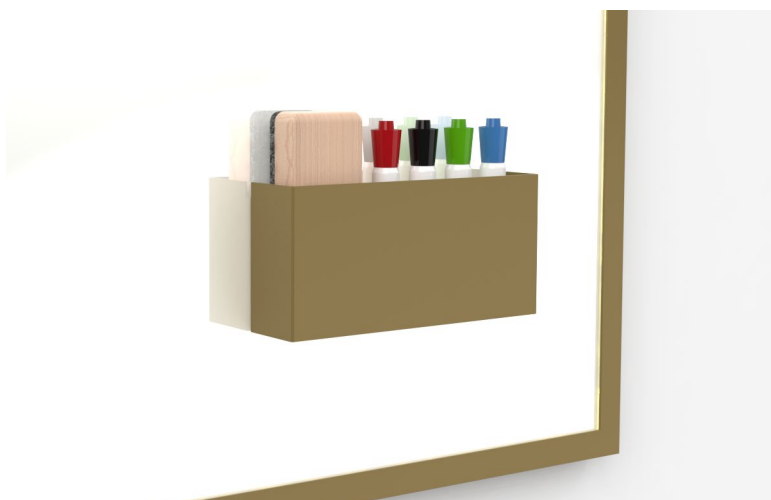
Frame and Finishes

The backpainted glass provides a wide array of color coordination options to suit your environment. The optional frame can be selected to border the markerboard and adds a unique finishing touch.



Add-On Accessories

The markerboard can be paired with the optional markerholder, which is designed to fit four dry erase markers and a solid maple cleaning brush. Compatible magnets are also available.



understanding markerboards (continued)

The following outlines the three main products markerboards can be applied to.



Drywall



Altos

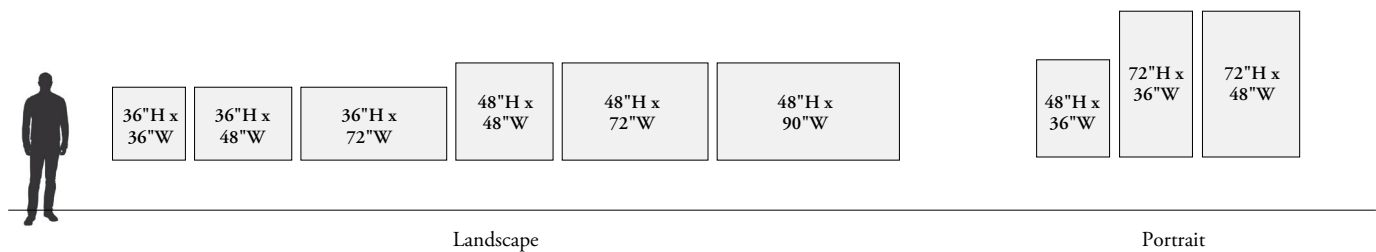


POD

application guide

markerboard dimensions

The following outlines various markerboard sizes.



Below shows the markerboard sizes that are applicable to each application

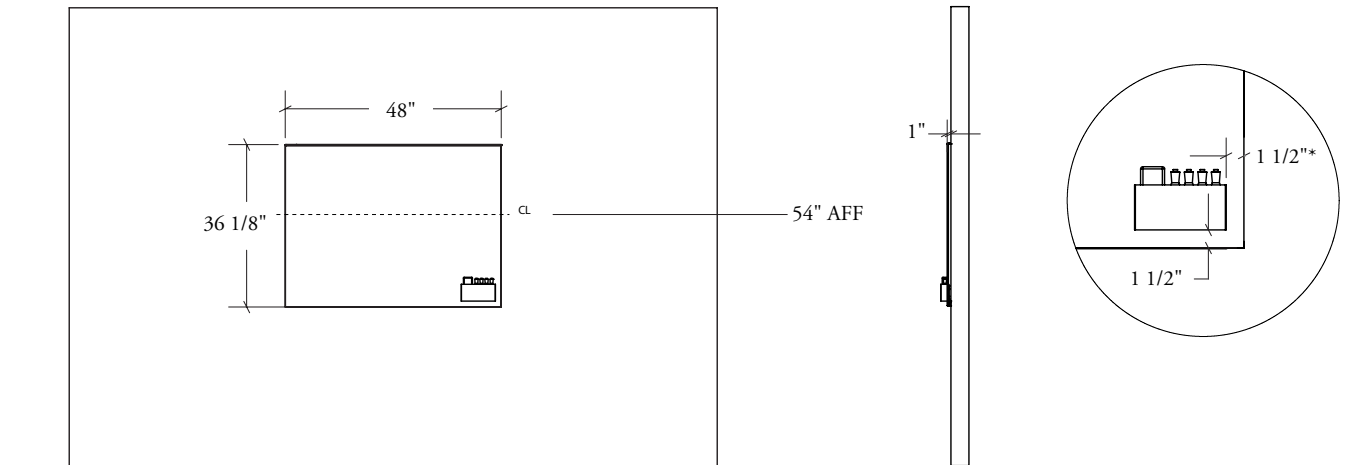
POD	Altos			Drywall		
36"H x 36"W	36"H x 36"W	48"H x 48"W	48"H x 36"W	36"H x 36"W	48"H x 48"W	48"H x 36"W
36"H x 48"W	36"H x 48"W	48"H x 72"W	72"H x 36"W	36"H x 48"W	48"H x 72"W	72"H x 36"W
36"H x 72"W	36"H x 72"W	48"H x 90"W	72"H x 48"W	36"H x 72"W	48"H x 90"W	72"H x 48"W

markerboard dimensions (continued)

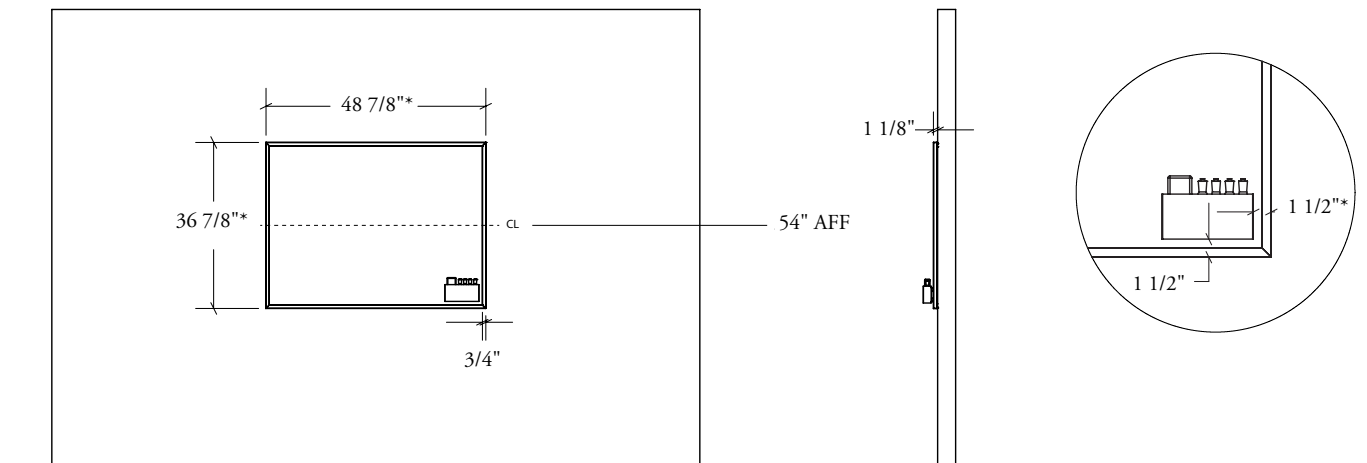
All dimensions are nominal.

54" AFF is a recommend centerline for most applications.

Markerholder is recommended to be mounted at a minimum 1 1/2" from the markerboard edge and mounting above 54" AFF is not recommended.



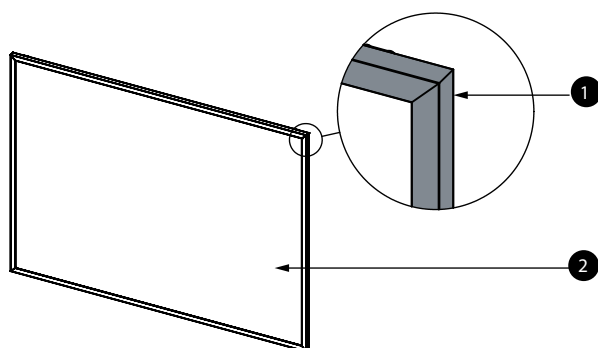
*Frameless 36" x 48" markerboard shown. Actual height is 1/8" higher than nominal markerboard dimensions for all sizes when including the outside edge of the trim.



*Framed 36" h x 48" w markerboard shown. Actual width and height when assembled are 7/8" larger than nominal markerboard dimensions for all framed markerboard sizes.

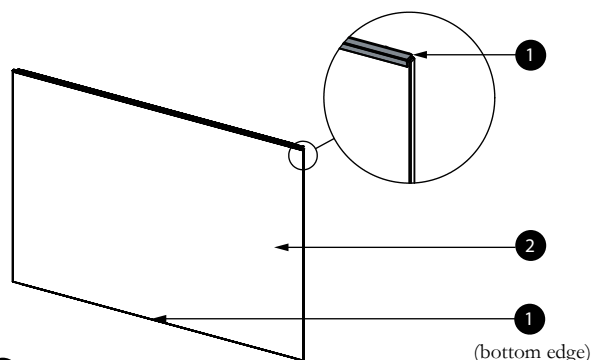
markerboard finishes

The following outlines markerboards finish locations and options.



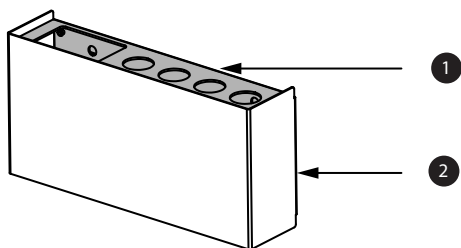
- 1 Frame:**
Foundation, Mica, Accent (excluding textured options), Clear Anodized
- 2 Backpainted Glass:**
Standard, Accent (select colors)
- Backer*:**
Ebony, Very White, Unpainted

* Selection applicable to POD only

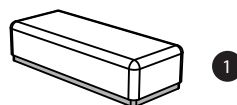


- 1 Frame:**
Foundation, Mica, Accent (excluding textured options), Clear Anodized
- 2 Backpainted Glass:**
Standard, Accent (select colors)
- Backer*:**
Ebony, Very White, Unpainted

* Selection applicable to POD only



- 1 Inner Finish:**
Foundation, Mica, Accent
- 2 Outer Finish:**
Foundation, Mica, Accent



- 1 Finishes:**
Solid Maple* handle with Clear Polyurethane finish. Natural Wool felt brush pad.

* Solid Maple is a natural material and some variance in color and grain is normal.

markerboard finishes (continued)

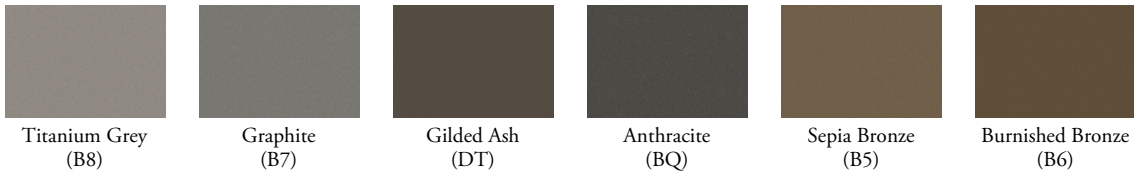
The following are guidelines for backpainted glass markerboards color selection.

The following is a guideline for reference. For the most accurate assessment of preferred backpainted color options, a sample should be ordered with the markers intended to be used on site.

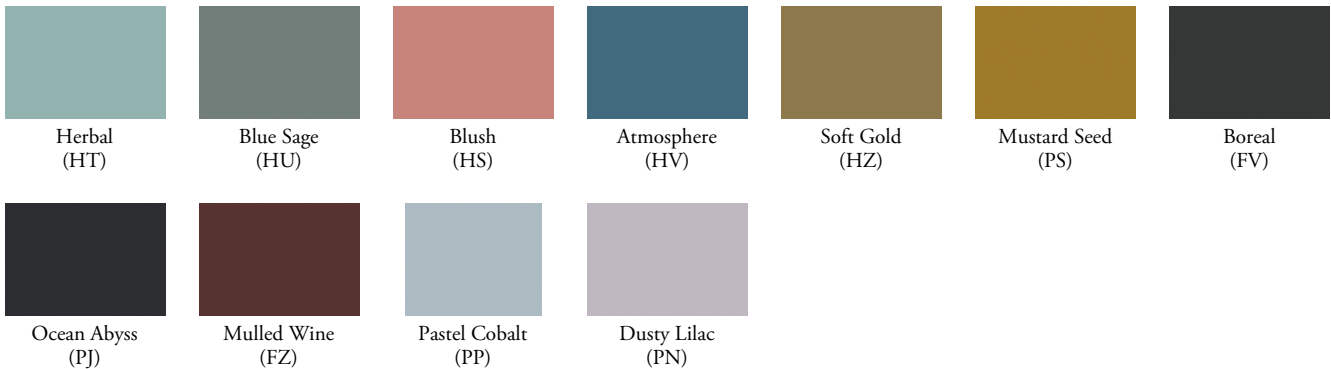
solid colors



mica colors

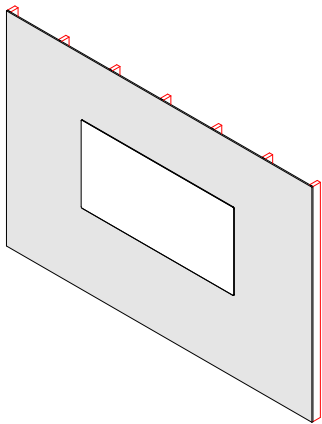


mica colors

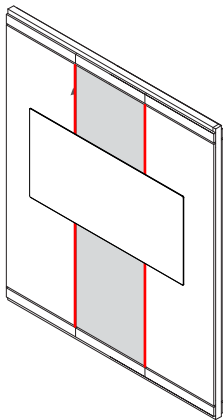


markerboard applications overview

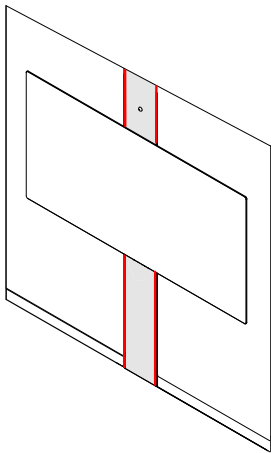
The following is an overview of applications that are applicable to each product line.



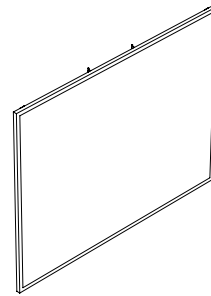
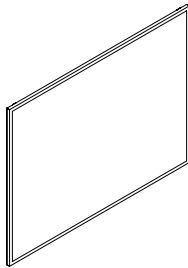
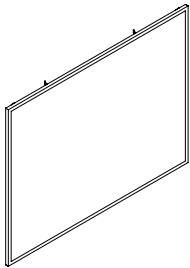
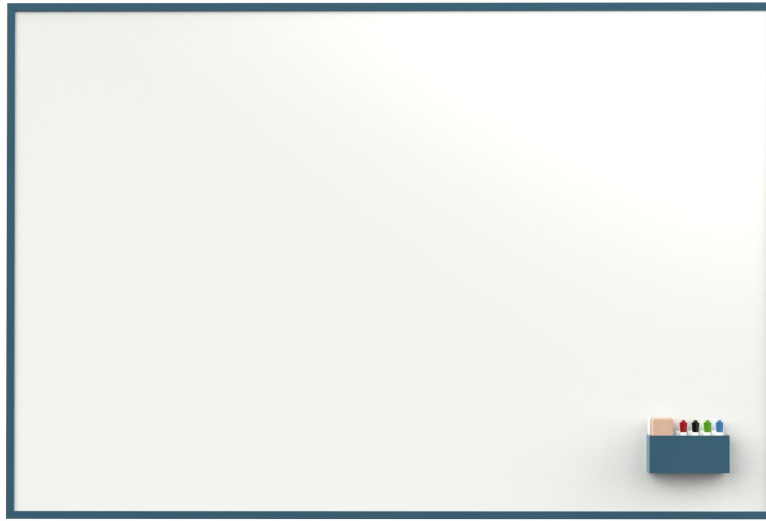
Drywall
Must be anchored to two studs minimum.



Altos - Portrait or Landscape Fascias
Must be connected to two verticals.



POD - Technology Fascia
Must be connected to two verticals on technology fascia only.



Backpainted Glass Markerboard - Drywall Application (FCGW)

Framed or Frameless options:

- Frameless includes a top and bottom trim detail
- Framed includes a frame around the entire perimeter
- Magnetic backer included

- Landscape:
36"h x 36"w, 36"h x 48"w, 36"h x 72"w, 48"w x 48"h, 48"w x 72"w, 48"h x 72"w
- Portrait:
48"h x 36"w, 72"h x 36"w, 72"h x 48"w
- Backpainted Glass Finish:
Standard and Accent (select colors)
- Frame or Trim (Frameless):
Foundation, Mica, Accent (select colors)

Backpainted Glass Markerboard - Altos Application (FCGA)

Framed or Frameless options:

- Frameless includes a top and bottom trim detail
- Framed includes a frame around the entire perimeter
- Magnetic backer included

- Landscape:
36"h x 36"w, 36"h x 48"w, 36"h x 72"w, 48"w x 48"h, 48"w x 72"w, 48"h x 72"w
- Portrait:
48"h x 36"w, 72"h x 36"w, 72"h x 48"w
- Altos Fascia Width:
12"-84" (1/8" increments)
- Backpainted Glass Finish:
Standard and Accent (select colors)
- Frame or Trim (Frameless):
Foundation, Mica, Accent (select colors)

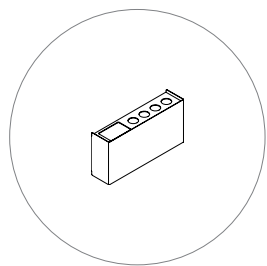
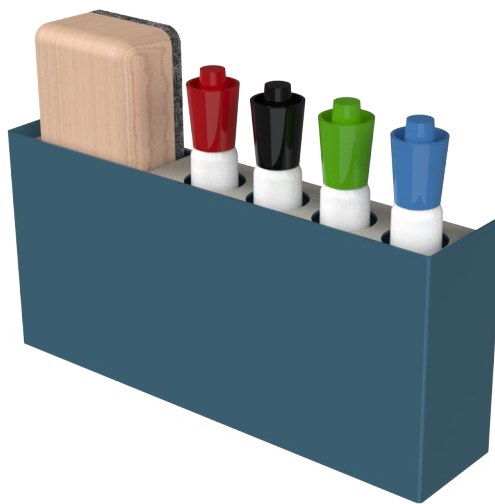
Backpainted Glass Markerboard - POD Application (FCGP)

Framed or Frameless options:

- Frameless includes a top and bottom trim detail
- Framed includes a frame around the entire perimeter
- Magnetic backer included

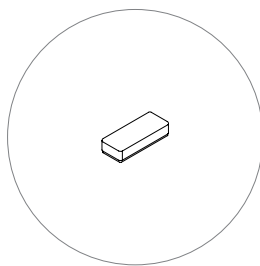
- Landscape:
36"h x 36"w, 36"h x 48"w, 36"h x 72"w
- Backpainted Glass Finish:
Standard and Accent (select colors)
- Frame or Trim (Frameless):
Foundation, Mica, Accent (select colors)
- Backer:
Ebony, Very White, Unpainted

markerboard basics (continued)



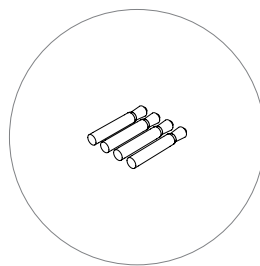
Markerboard Marker Holder (FCGH)

- Holder can be ordered with or without accessories
- Accessories include:
 - Dry Erase Markers
 - Marker Eraser Brush
- Outer Finish: Foundation, Mica, Accent
- Inner Finish: Foundation, Mica, Accent
- Marker Holder is supplied with 3M Dual Lock™ mounting strips for attachment to markerboards.



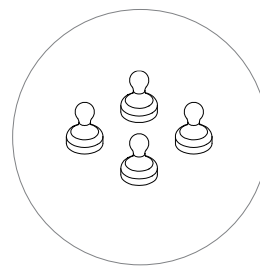
Markerboard Eraser Brush (FCGE)

- Brush handle is made of solid Maple
- Wood Finish: Clear Coat
- Eraser Pad: Charcoal Felt



Markerboard Markers (FCGM)

- 4 x Dry Erase Markers

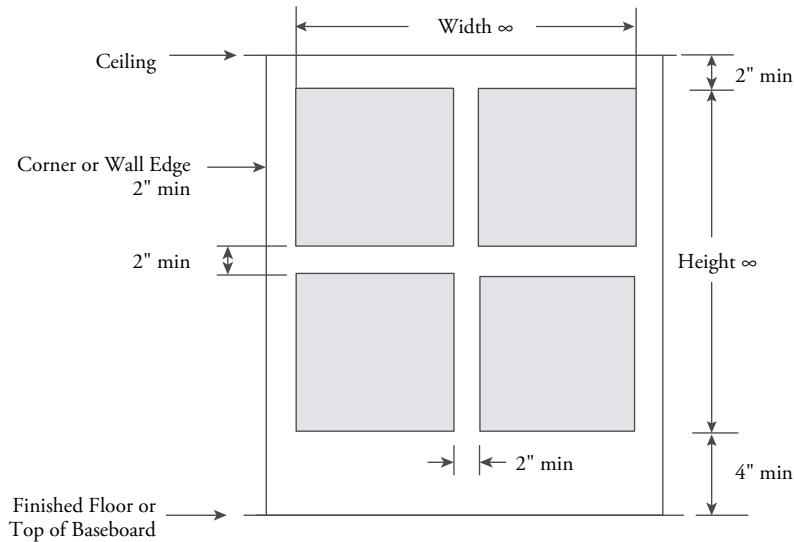


Rare Earth Magnet Kit (FCGR)

- Quantity: 4 or 24
- Black finish only

planning with markerboards - drywall applications

The following describes the planning restrictions of Markerboards on drywall and placement relative to the base building.



Top to Ceiling Spacing

2" minimum to allow room for install.

Bottom to Floor or Baseboard Spacing

4" minimum to allow room for foot clearance.

Markerboard to Markerboard - Top to Bottom Spacing

2" minimum to allow room for leveling and install.

Markerboard to Markerboard - Side to Side Spacing

2" minimum to allow room for install.

Corner or Wall Edge

2" minimum of setback to allow room for install and prevent obstructions.

Site Level

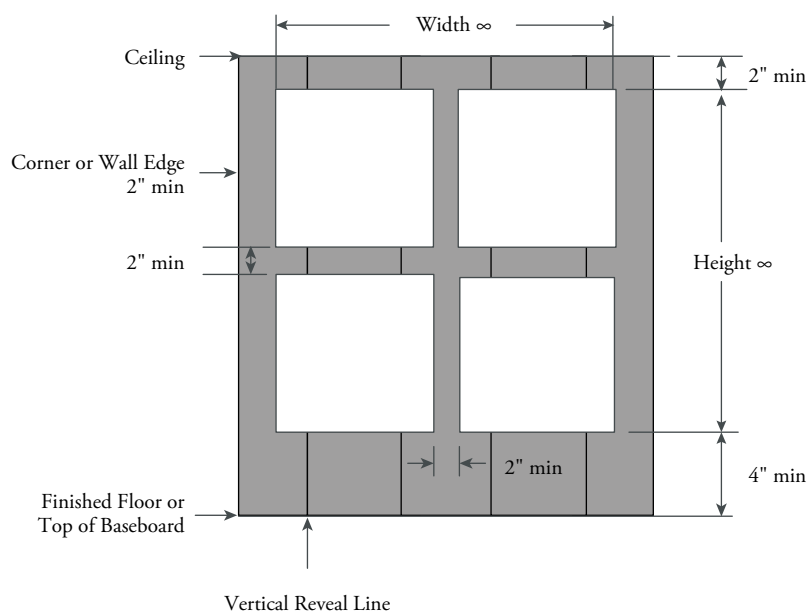
The above dimensions should consider the levelness of the site and should be measured from the highest point at the ground level and the lowest point from the ceiling over the width of the compositions.

Wall Flatness

The wall to be installed on needs to be flat. It cannot have significant bowing, peaks or valleys.

planning with markerboards - altos applications

The following describes the planning restrictions of Markerboards in respect to Altos fascias.



Top to Ceiling Spacing

2" minimum to allow room for install.

Bottom to Floor or Baseboard Spacing

4" minimum to allow room for foot clearance.

Markerboard to Markerboard - Top to Bottom Spacing

2" minimum to allow room for leveling and install.

Markerboard to Markerboard - Side to Side Spacing

2" minimum to allow room for install.

Corner or Wall Edge

2" minimum of setback to allow room for install and prevent obstructions.

Site Level

The above dimensions should consider the levelness of the site and should be measured from the highest point at the ground level and the lowest point from the ceiling over the width of the compositions.

Wall Flatness

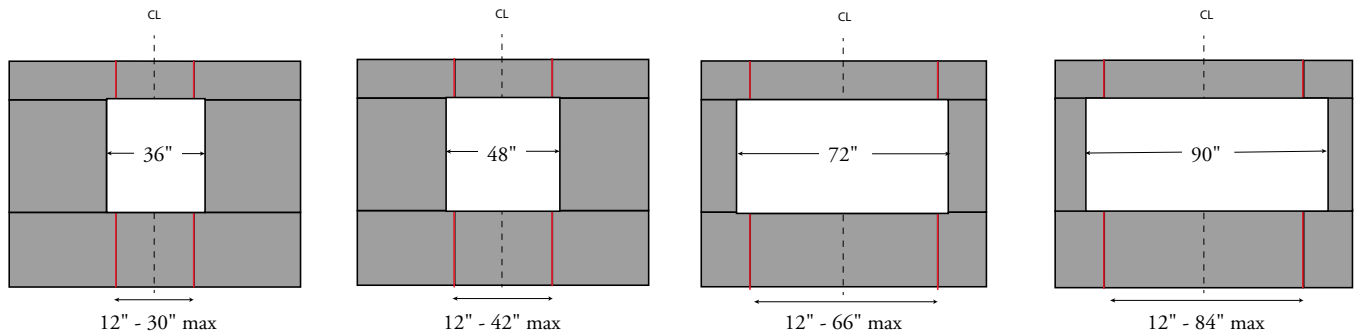
The wall to be installed on needs to be flat. It cannot have significant bowing, peaks or valleys.

planning with markerboards - altos applications (continued)

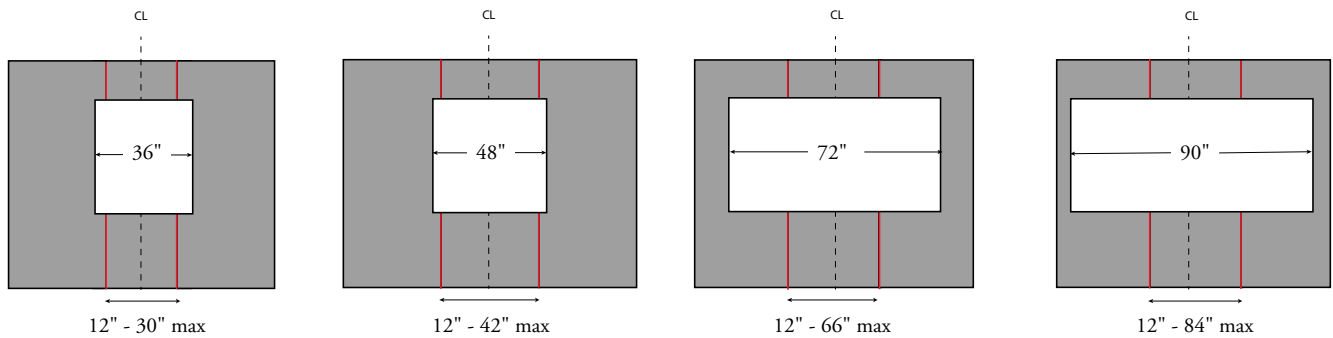
Markerboards must be placed centered between the two vertical posts selected. +/- 2" left or right for fine adjustment is acceptable.

The diagram below shows the maximum width of fascia or span between two vertical posts (landscape or portrait) in relation to the markerboard width.

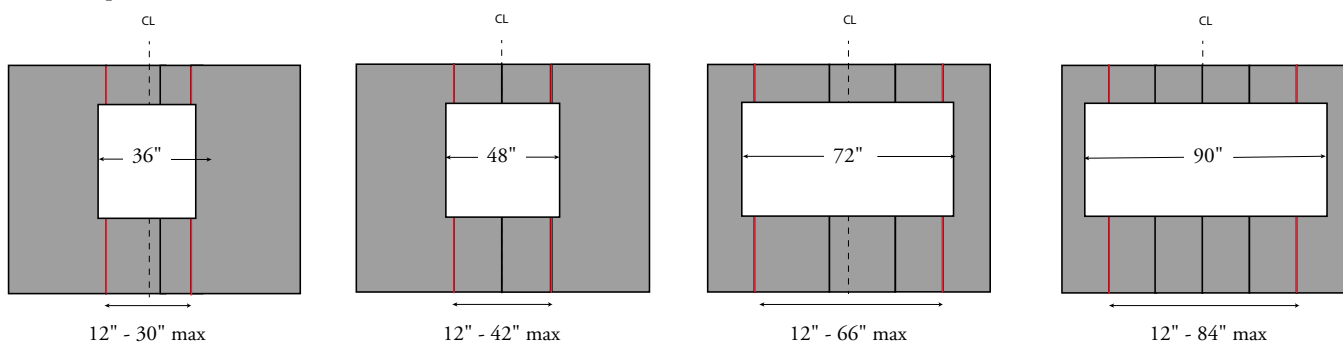
Landscape



Portrait

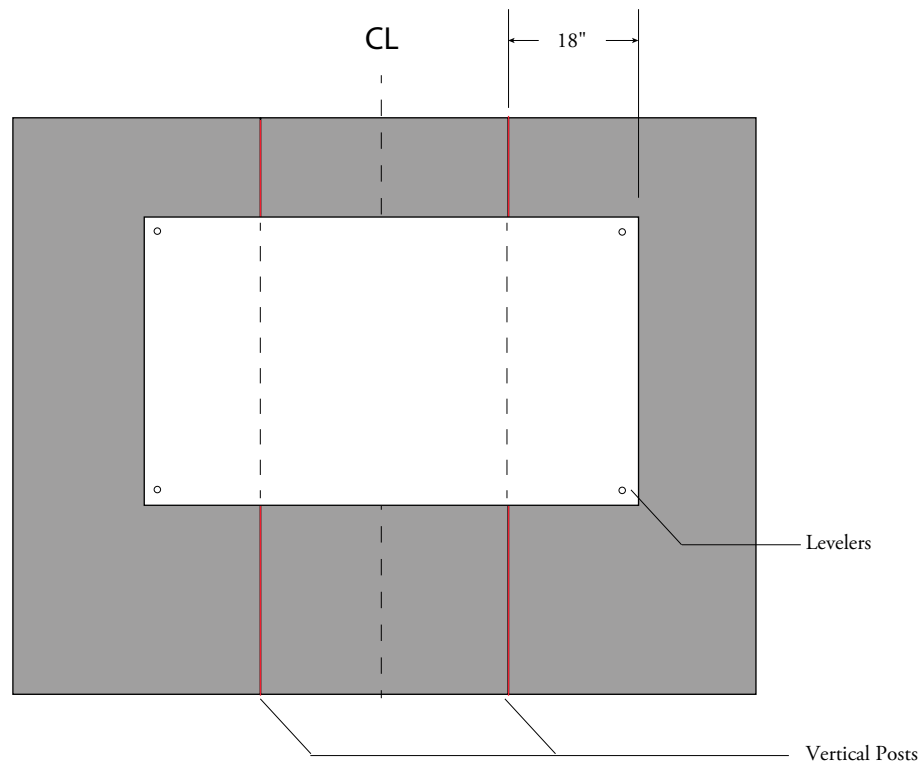


Multi Fascia Span



planning with markerboards - altos applications (continued)

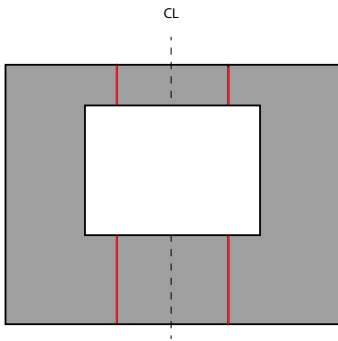
Levelers will be included by default with the Markerboard (FCGA) when the vertical post and the edge of the Markerboard is 18" or greater.



planning with markerboards - altos applications (continued)

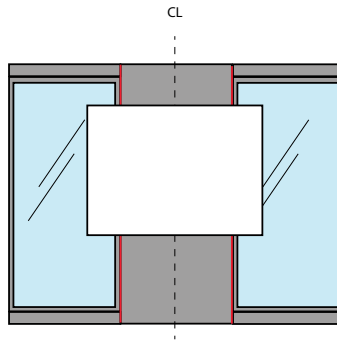
The following are the planning restrictions of Markerboards on Altos fascias.

- Markerboards can only be placed over non-glass fascias. This includes any fascias the markerboard in overlapping on the left and right of its mounted positions.



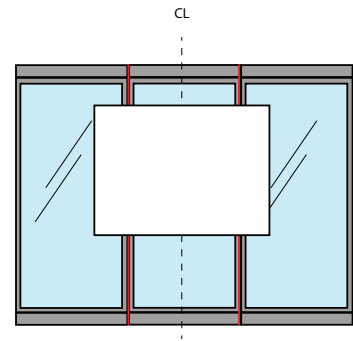
Left/Center/Right (any combination)

- Solid
- Acoustic Tackable
- Fabric Wrapped
- Micro-perforated
- Backpainted Glass (not recommended)



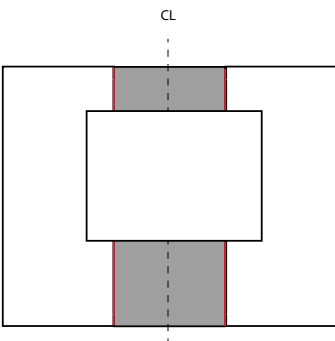
Left or Right Side

- Glass Fascia



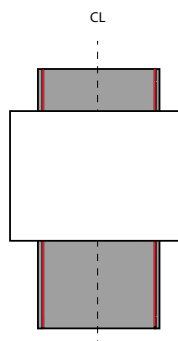
Center

- Glass Fascia



Left/Center/Right (any combination)

- Drywall (adjacent to any fascia)



Left or Right Side

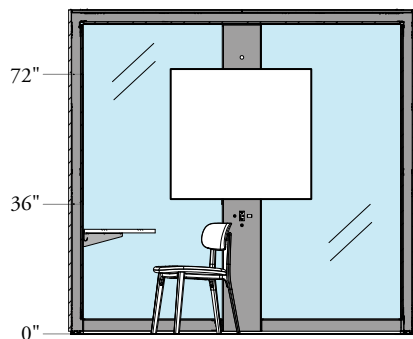
- Opening on either side

planning with markerboards - POD applications

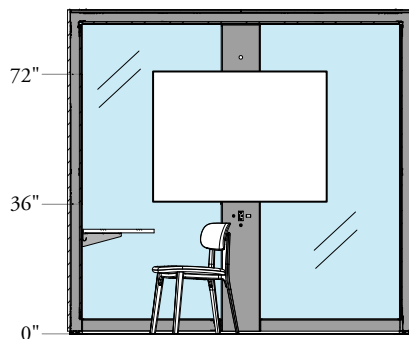
The following are the planning restrictions of Markerboards in POD applications.

Markerboards are applied centered to the technology fascia only and are limited to the following three sizes.

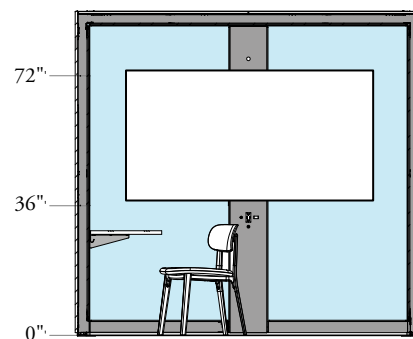
Markerboards must be installed at the elevation shown.



36"h x 36"w



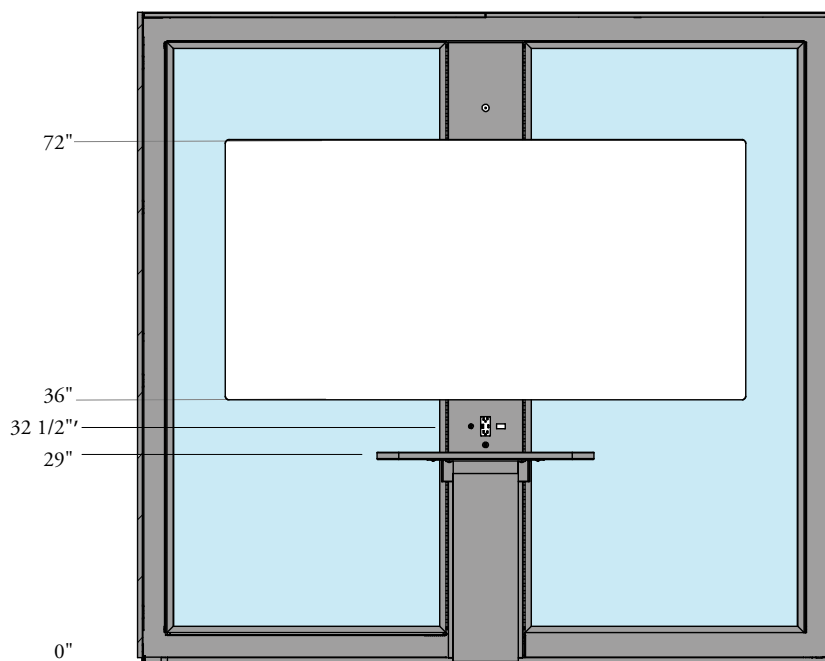
36"h x 48"w



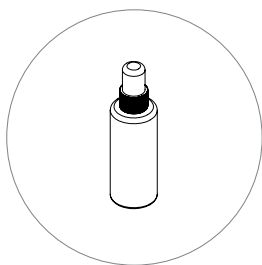
36"h x 72"w

Markerboards are compatible with no worksurface and 29" worksurface options only.

Markerboards are compatible with 26" and 32 3/4" electric heights on the Vertical Technology Fascia (FTRF).



Architectural Complements offers the following accessory component.



Activator Kit (FCAK)

- Kit for glass cleaning before install
- One applicator kit covers approximately 50 pieces of 10' inline mullion kits

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