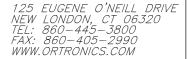






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Please review this entire guide before beginning the installation. Due to the nature of the content, details relevant to particular operations may be included in other sub-sections of the document.

See Applications Guide:

The Contain-IT™ FLEX Applications Guide contains the following information not included in this document:

- How to determine aisle type
- How to measure aisles

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- How to determine what to order
- A detailed pictorial list of components
- Product weight and auxiliary load carrying capacity
- Flammability and smoke ratings

See End of Row Door Installation Instructions:

Please see document number *OR-71601934* for end of row door installation instructions

Necessary Tools:

- T10 Torx driver (a T10 Torx 1/4" hex shank driver bit is supplied with each kit of screws)
- #3 Phillips driver (a #3 Phillips 1/4" hex shank driver bit is supplied with each kit of screws)
- Tape measure
- Chop saw (for cutting Beams to length)
 - Hand saw with miter box
 - A hand saw with miter box is available from Legrand P/N OR-CFTKIT
 - Powered miter saw with finish blade
- Finish saw (for cutting Panels)
 - Fine tooth hand saw capable of cutting 3/8" thick, 48" wide, hollow, plastic Panels
 - Jig saw with plastic or plexi blade
 - Circular saw with finish or paneling blade
- Two 3/4" open end wrenches
 - Adjustable wrenches that open to 3/4" are acceptable
- Shop shears or heavy duty scissors
- Level
- Framing square
- Drywall square, 48" straight edge or chalk line
- Step Ladder
- Personal Protective Equipment appropriate for tools used, including safety glasses

Items not included in kits:

- Threaded rod (with washers and nuts)
 - The recommended (and largest size) threaded rod is 1/2"-13
- Cage nuts and screws for securing Cabinet Brackets to cabinet tops
 - The part numbers for #12-24 cage nuts and screws quantity 50 of each are:
 Cage nuts: OR-PS-1224CN, Screws OR-60400533
- Screws/bolts, washers and nuts needed to lock containment to Cablofil wire mesh cable tray

Torques for fasteners:

- #4 fasteners in plastic connectors: 3 inch pounds
- #12 fasteners in plastic Beams: 5 inch pounds
- #12 fasteners in aluminum Beams: 25 inch pounds
- 1/2"-13 nut on threaded rod on Hanger: 25 inch pounds

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General Rules:

 Every Beam that runs along the aisle that is greater than 36 inches in length requires two means of support

• Every Beam that runs along the aisle that is greater than 18 inches in length requires at least one means of support

• There are two different means of support: Hangers and Cabinet Brackets

 For Beams with a single means of support, the support must be located at the center of gravity

The nominal distance between supports is 45 inches

The 45 inch spacing corresponds to half the length of the beams, which are 90 inches long

• The maximum spacing between means of support is 72 inches

 The flutes of the Panels must go across the aisle for Horizontal Containment and must be oriented vertically for Vertical Containment

End of Row Doors may be installed before or after Containment

 Consider accessibility to Containment and potential of damage to Doors when deciding whether to install Doors before or after Containment

End of Row Doors may impede ladder and/or lift placement or pathways

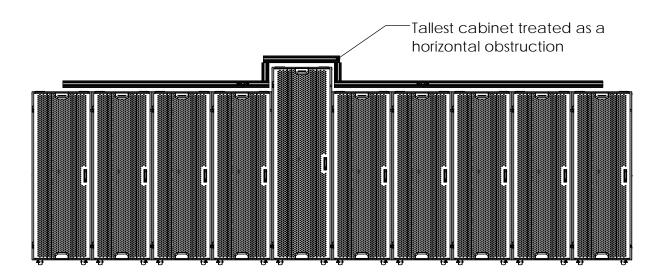
Ensure all Beams are level and all corners are square

Getting Started:

Verify receipt of all parts

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- Verify that all part numbers that were purchased were received
- Verify that all components of items purchased were received
- See the "Aisle Kit Component Quanities" tables at the end of this document for quantities of components in each kit
- Determine the position of the lower Beam; in the case of Horizontal Containment, the lower Beam is the only Beam
 - The lower Beam is typically (but not necessarily) set a nominal distance above the tallest cabinet
 - If the majority of the cabinets are not as tall as the tallest cabinet, it may be more efficient to treat the tallest cabinet as a horizontal obstruction



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Typical Sequence of Operations, Horizontal:

1. Install means of support, either Cabinet Brackets (*OR-CFBC*) or Hangers (*OR-CFBHB8*) on threaded rod (or Cablofil wire mesh cable tray)

2. Install Beams (*OR-CFB90A* or *OR-CFB90P*) that go along aisle (above cabinets, if cabinets are present at the time of installation), including Beam Splices (*OR-CFSB4*) and #4 Screws (*OR-CFHWTRX*) that secure them

Installation of Beams that go along aisle may require cutting one or more Beams

to length

3. Cut Panels (OR-CFPMW48108), Panel Splices (OR-CFSP3108) and cross Beams (OR-CFB90A or OR-CFB90P) to length

4. Install Panels, Panel Splices, and cross Beams concurrently, working from the middle of the aisle toward the ends

1. Installation of cross Beams inside the aisle uses Inside Corners (OR-CFC14)

2. The two end cross Beams use Inside Corners and Outside Corners (OR-CFCO4)

5. Install Corner Support Brackets (OR-CFCSB4) on all cross Beams

6. Install Panel Clip's (*OR-CFRC12*), Flap Seals (*OR-CFSC96*), and Badges (*OR-CFCAP4*), in no particular order

Details for each individual step listed above are contained in other sub-sections of this document.

<u>Typical Sequence of Operations, Vertical:</u>

- 1. Install means of support, either Cabinet Brackets (*OR-CFBC*) or Hangers (*OR-CFBHB8*) on threaded rod (or Cablofil wire mesh cable tray)
- 2. Install Beams (*OR-CFB90A* or *OR-CFB90P*) that go along aisle (above cabinets, if cabinets are present at the time of installation), including Beam Splices (*OR-CFSB4*) and #4 Screws (*OR-CFHWTRX*) that secure them

 Installation of Beams that go along aisle may require cutting one or more Beams to length

- 2. It may be advantageous, but is not necessary, to install the upper Beams before the lower Beams, due to accessibility issues that the lower Beams may create
 - 1. The accessibility issues that the lower Beams may create would be relative to ladder/lift placement/pathways
 - 2. It is not possible to install upper Beams first in cabinet supported configurations
- 3. It may be advantageous, but is not necessary, to install the Bulb Seals (*OR-CFBS296*) into the upper Beams before installing the upper Beams
- 3. Cut cross Beams to length and install them
 - 1. Installation of cross Beams inside the aisle uses Inside Corners (OR-CFCI4)
 - 2. The two end cross Beams use Inside Corners and Outside Corners (*OR-CFCO4*)
- 4. Cut Panels (*OR-CFPMW4848*) and Panel Splices (*OR-CFSP348*) to height, if Panel Splices are going to be used

1. The alternative to Panel Splices is overlapping Panels

- 5. Form four corner Panels using Panels that were previously cut to height
- 6. Install Panels
- 7. Install Panel Clips (*OR-CFRC12*), Flap Seals (*OR-CFSC96*), and Badges (*OR-CFCAP4*), in no particular order

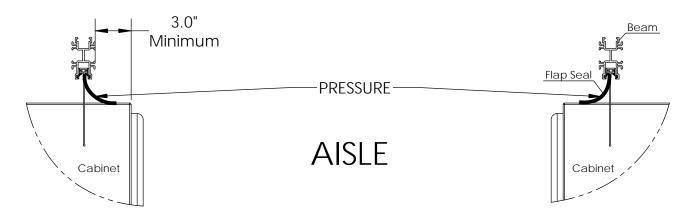
Details for each individual step listed above are contained in other sub-sections of this document.

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Beam Horizontal Position:

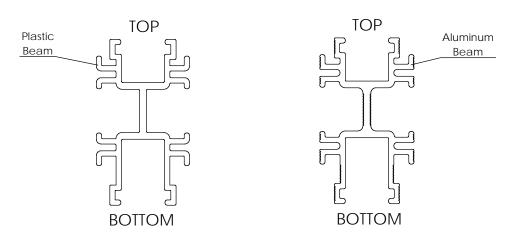


Recommended Beam Horizontal Position: Positive or Negative Pressure



Narrow Beam Horizontal Position: Negative Pressure Only

Beam Orientation:

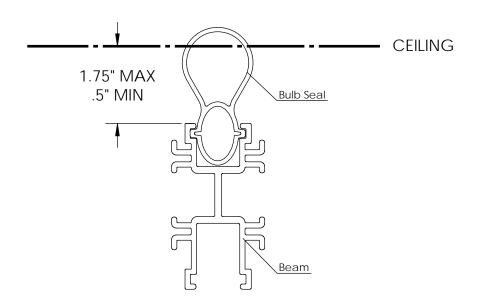


Beams shall be oriented as shown above, except when specifically stated otherwise.

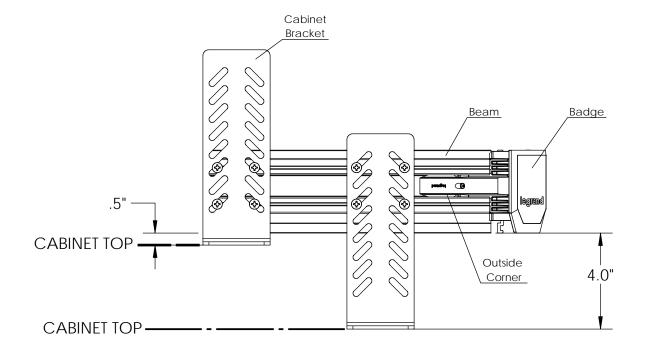
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Beam Vertical Position:



Vertical position of upper Beam in vertical containment.



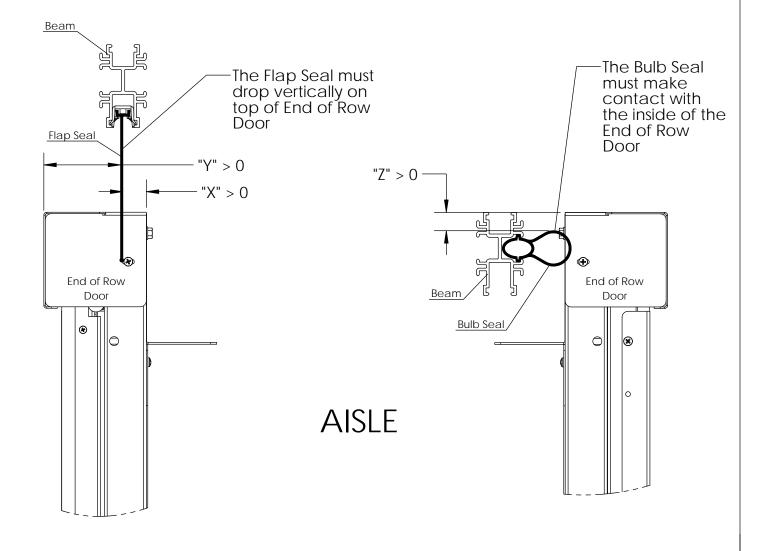
The height range for the bottom Beam, using Flap Seal is shown above (Flap Seal is not shown). This height range also applies to ceiling supported containment (Hangers not shown).

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Beam Position:

- The lower Beam may be positioned over or inside of the End of Row Door, as shown below.
 - The same dimensions that apply to the Flap Seal relative to a cabinet apply here.
 - The same dimensions that apply to the Bulb Seal relative to a ceiling apply here.





Flap Seal and Bulb Seal:

• By default, the Flap Seal and Bulb Seal should be cut 6 inches longer than the beam into which it is being installed.

The additional 6 inches of length of the Flap Seal is to allow it to overlap, to avoid

leaks that are created by butt joints.

 The additional length of Bulb Seal is to allow it to be slit and inserted into the adjacent Bulb Seal, again to avoid leaks that are created by butt joints.

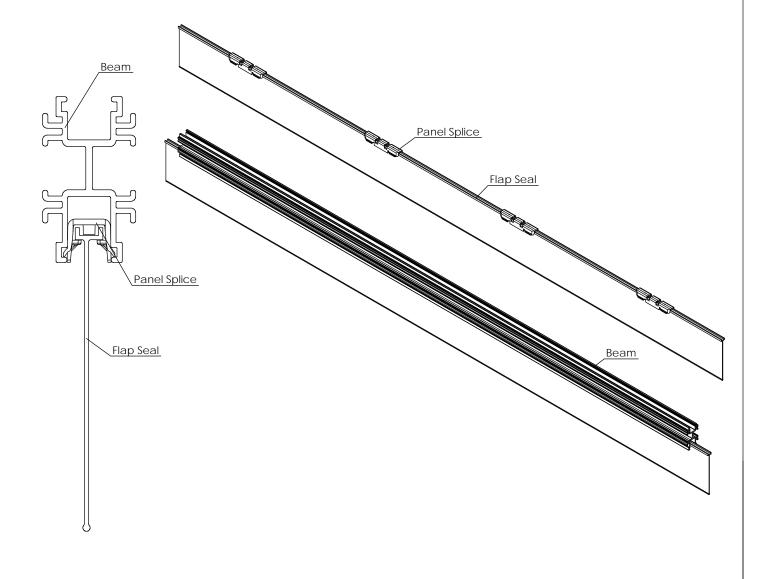
• On long runs, the number of pieces of Flap Seal and/or Bulb Seal that are needed are the same as the number of lower/upper Beams. The Flap Seal and Bulb Seal are 96 inches long; the Beams are 90 inches long.

To install the Flap Seal, slide Beam Splices (*OR-CFSB4*) onto the Flap Seal from the ends, with the Beam Splices located 12 inches in from each end and roughly evenly spaced

in between.

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 Once the Beam Splices are positioned on the Flap Seal, snap the Beam Splices into the Beam where needed.

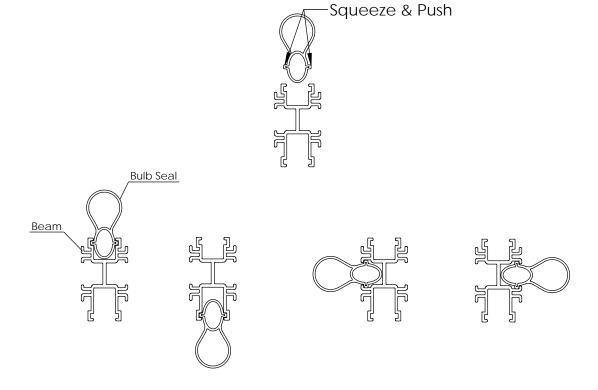




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Bulb Seal:

The Bulb Seal is installed by compressing the ribs, and pushing the smaller bulb into the beam.



The Bulb Seal may be installed in any of the four positions in the Beam, as shown above.

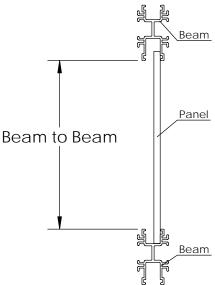


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Panels:

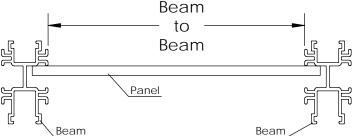
Vertical Panels:

 The height of vertical Panels is 1.5 inches greater than the distance between the Beams.



Horizontal Panels:

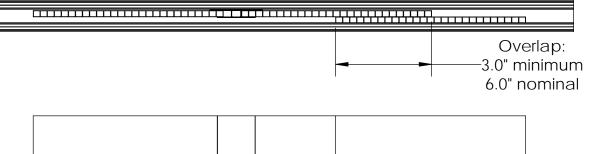
• The width of the horizontal Panels is 1.3 inches greater than the distance between the Beams.

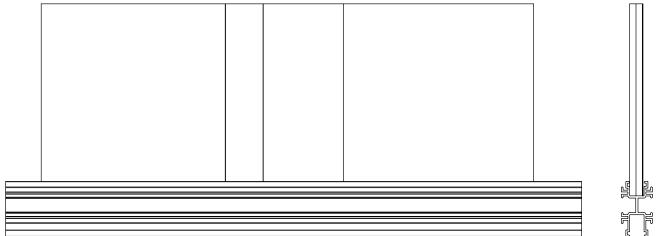


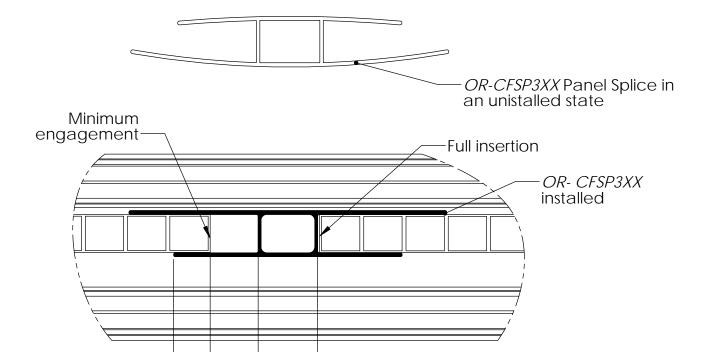
Overlapped Panels:

- The nominal overlap between Panels should be 6 inches.
- The minimum overlap between Panels is 3 inches.

Panels:







Panel Splice (OR-CFSP3XX)

(.38")

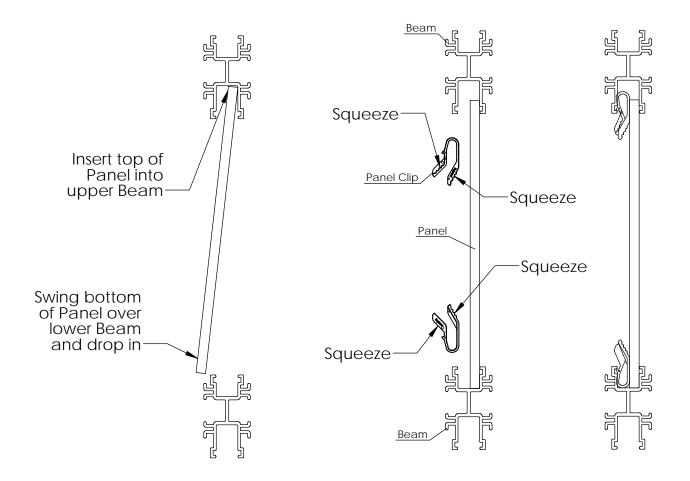
Panels may fully inserted or engaged as little at 3/8" Panel Splice adds 5/8" to width of each panel

(5/8")

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Installation of Panels and Panel Clips:

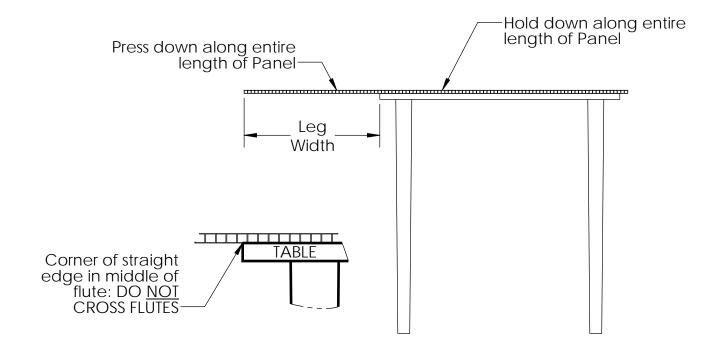


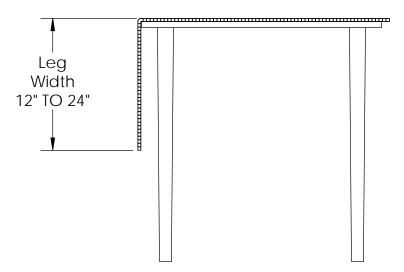
Use four Panel Clips per 4 foot wide panel; two in top Beam and two in bottom Beam. Or, two in left Beam and two in right Beam for horizontal containment.



To Form Corner Panels:

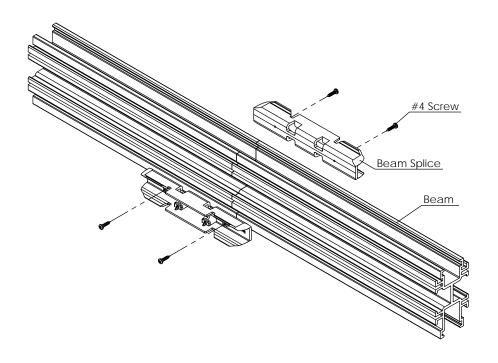
- To form a corner Panel:
 - Place a Panel on a straight edge of a table or workbench (or other similar object, such as a crate)
 - Align the Panel with the desired leg width extending over the straight edge
 - Make sure that the straight edge does <u>NOT</u> cross flutes.
 Hold the entire length of the Panel down on the table, and press down on the entire length of leg
 - Panels longer than 24 inches will require two people



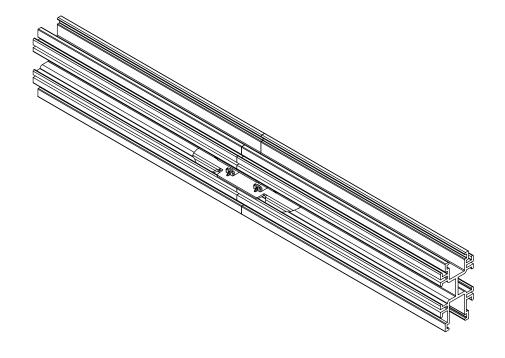




Beam Splice:



Beam Splices may be snapped in or slid in from end. Joints are secured with #4 screws. Torque: 3 inch • pounds



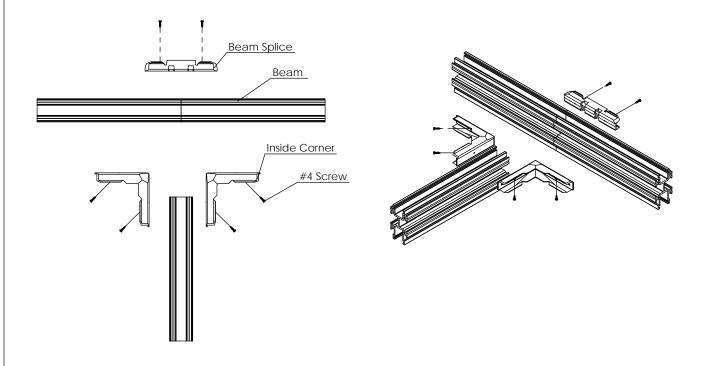
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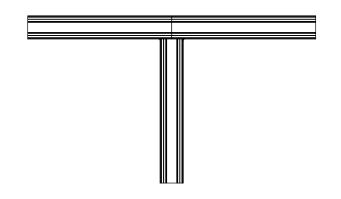


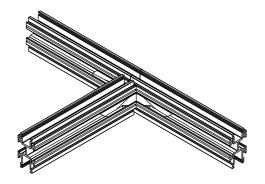
Alternate Splicing Method:

An alternate method of splicing is to use two Inside Corners on the end of a perpendicular Beam Splice and Inside Corners are secured with #4 screws.

Torque: 3 inch • pounds







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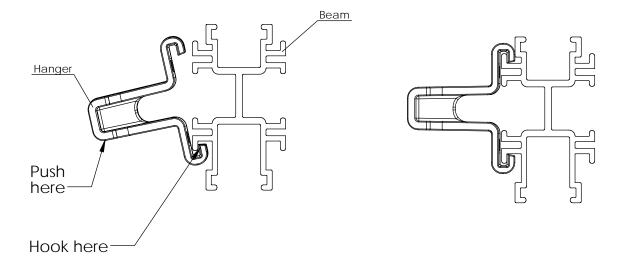
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Hanger:

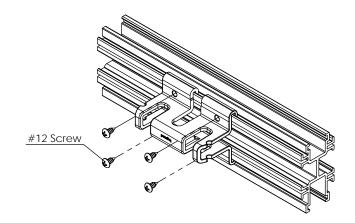
For Horizontal Containment, hangers and cabinet brackets must be installed outside the aisle.

The hangers and cabinet brackets must be installed outside the aisle, because the hangers and cabinet brackets will interfere with the Panels.

For Vertical Containment, Hangers and Cabinet Brackets may be installed inside or outside the aisle.



Hangers may either be snapped on OR slid on from the end of the Beam.



Hangers are secured to Beams using #12 screws, which are provided.

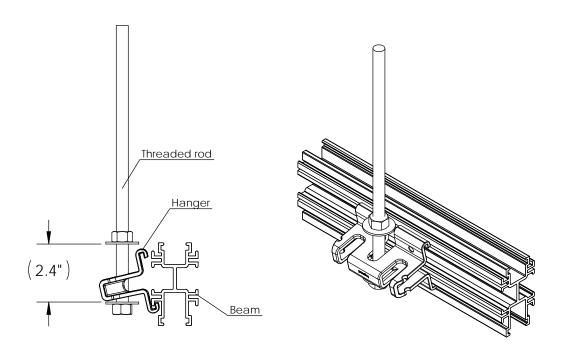
Torque in plastic Beam 5 inch • pounds

Torque in aluminum Beam 25 inch • pounds

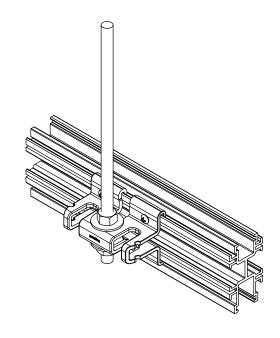
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Hanger:



Hanger may be snapped on to Beam around the threaded rod, as shown above.

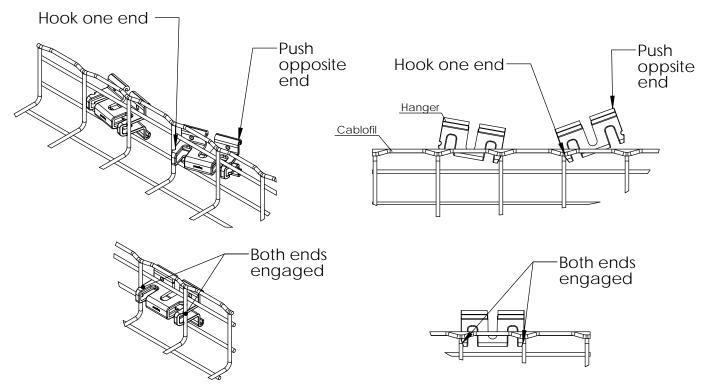


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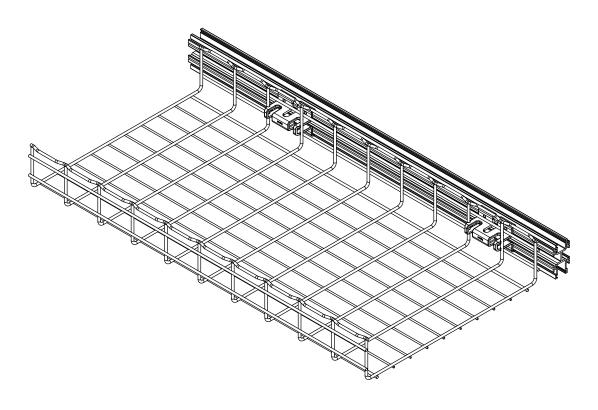


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Hanger:

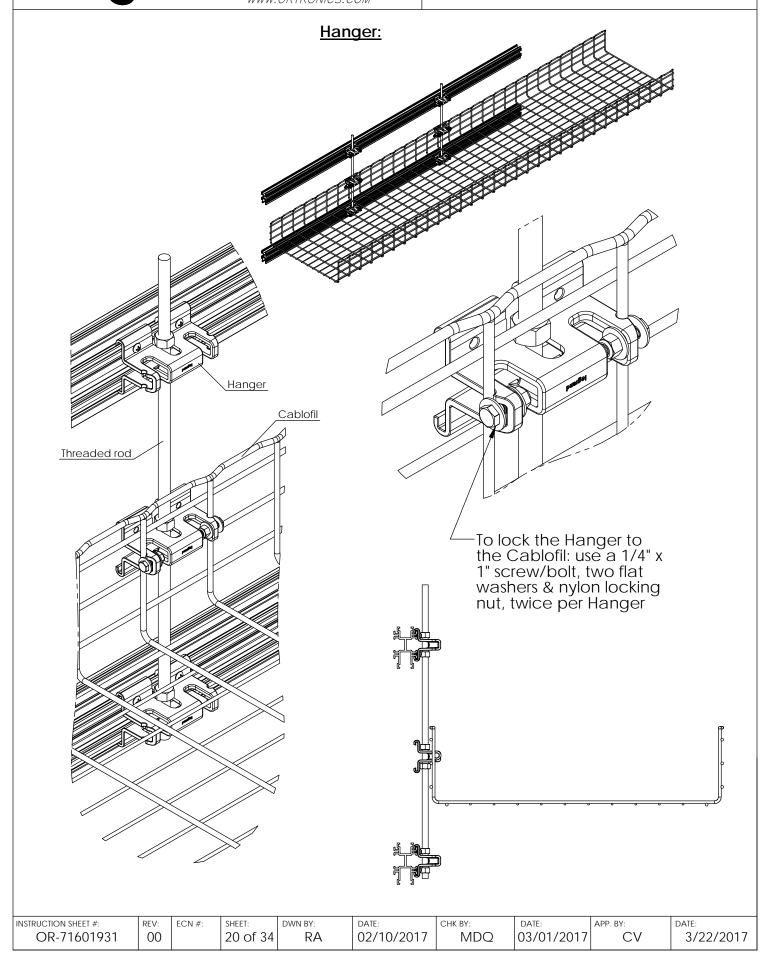


Hangers may be used to mount to Cablofil tray, as shown above and below.



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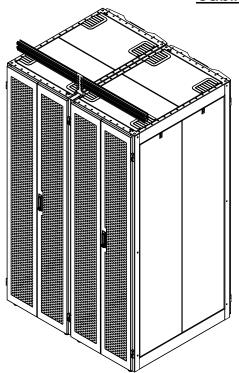
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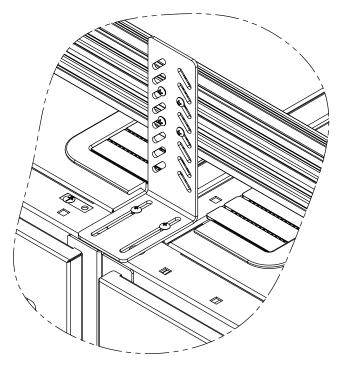




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Cabinet Bracket:



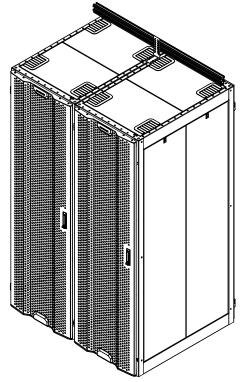


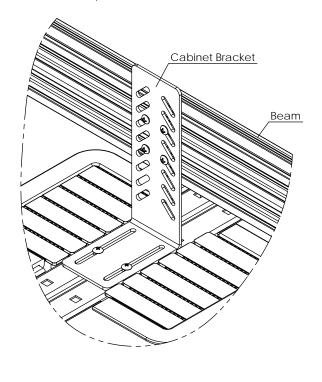
 The Cabinet Bracket is secured to the cabinet frame with cage nuts and screws (not provided in the aisle kit), as shown above and below

 The Beam is secured to the Cabinet Bracket with #12 screws (OR-CFHWPHPS, which are provided in the aisle kit)

• Torque for plastic Beam is 5 inch • pounds, aluminum Beam is 25 inch • pounds

The Cabinet Bracket may be installed with the foot facing away from the Beam, as shown on this sheet or with the foot under the Beam, as shown on the next sheet





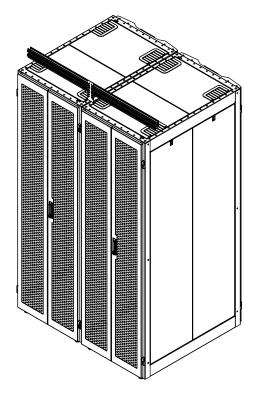
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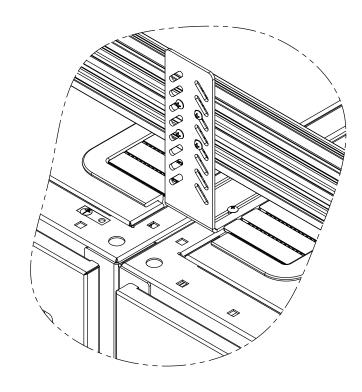
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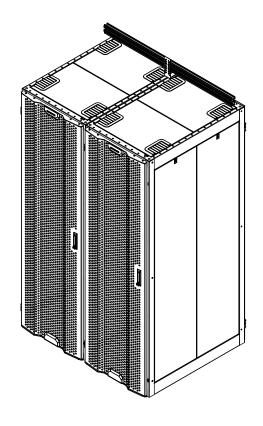
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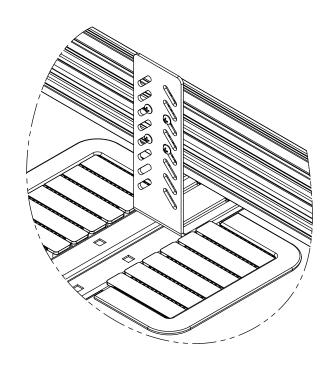
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Cabinet Bracket:





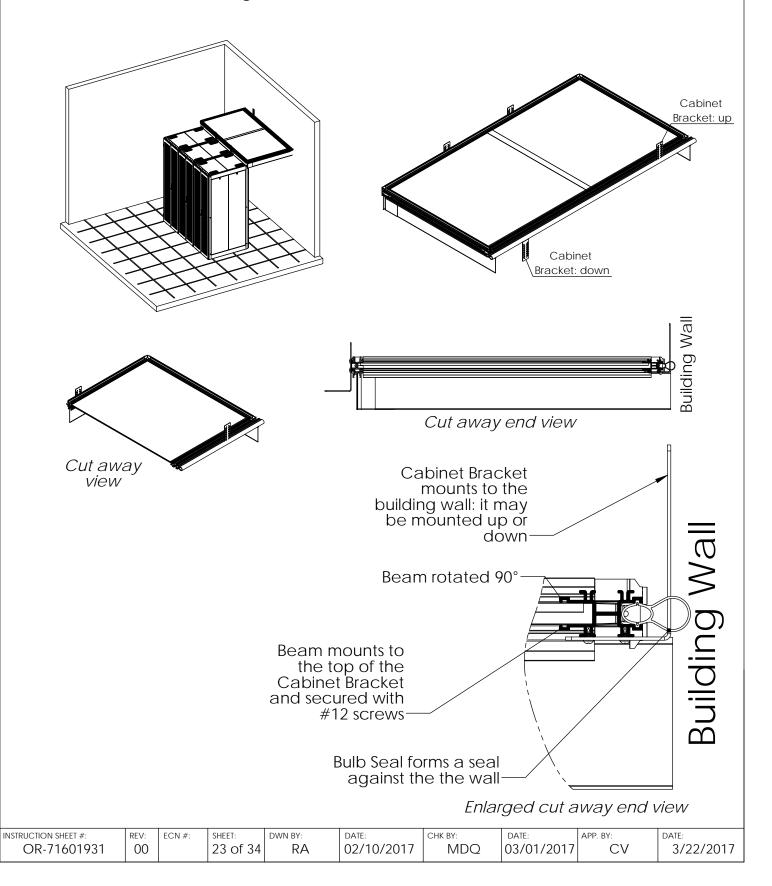






Horizontal Containment Against a Building Wall:

To install Horizontal Containment against a building wall, it is is necessary to rotate the Beam that will be installed against the wall 90°, as shown below

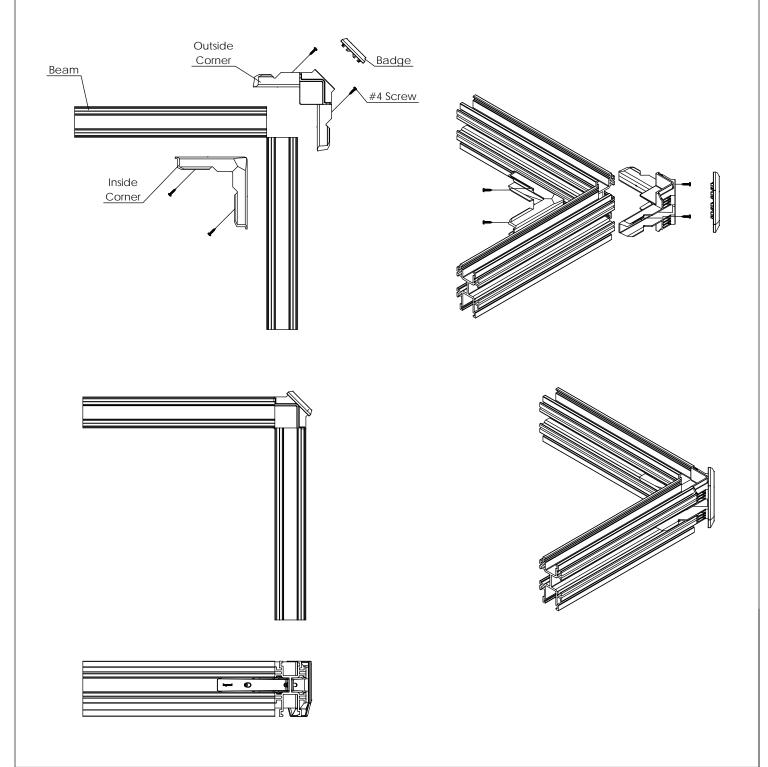




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Corners:

- Beams are cut to align vertices at corner as shown. The Outside Corner (OR-CFCO4) connector sets this relationship
- Plastic corner connectors (OR-CFCI4 and OR-CFCO4) are secured with #4 screws (OR-CFHWTRX)
- Torque: 3 inch pounds The Badge(*OR-CFCAP4*) is installed by pushing the barbs into the outside corner

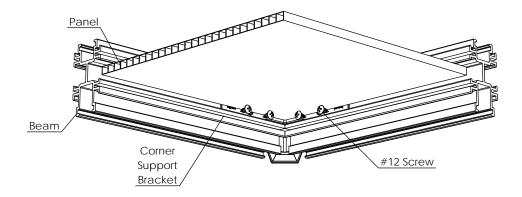


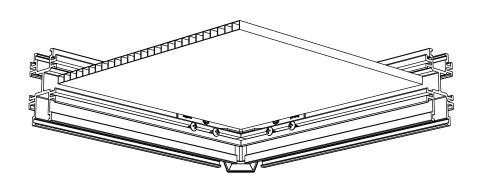


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Corners:

- For Horizontal Containment, the position of the Panels make screws on Inside Corner (*OR-CFCI4*) connectors inaccessible
- When screws on Inside Corner connectors are inaccessible, Corner Support Brackets (OR-CFCSB4) are used
 - They are fastened to Beams by installing #12 screws (*OR-CFHWPHS*) into grooves, as shown
- The intersections between cross Beams and Beams that run along aisles are treated as inside corners

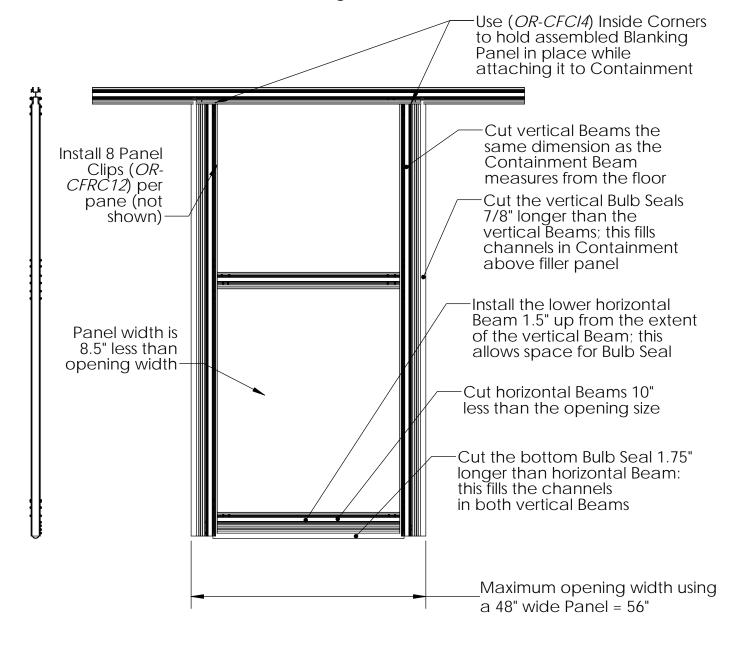


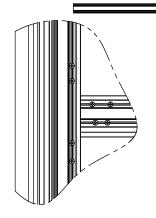


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Vertical Blanking Panels:





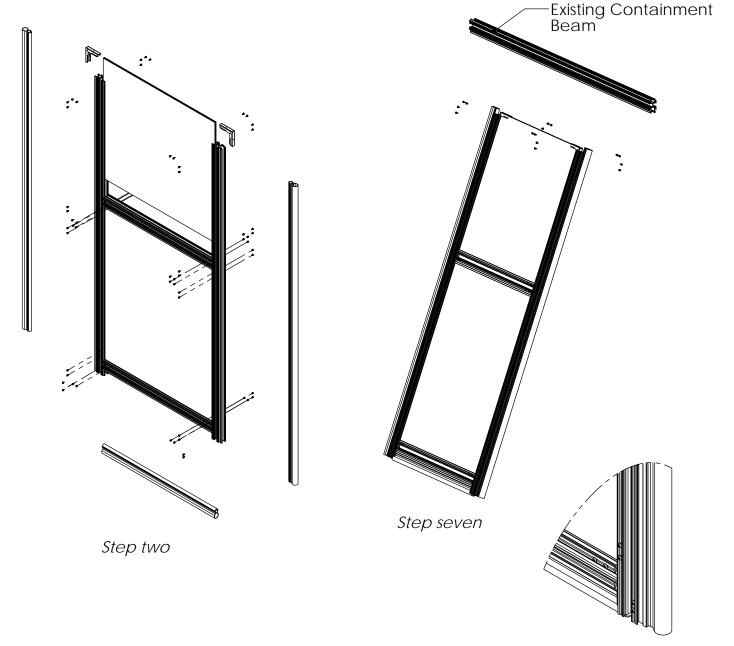
Use four (*OR-CFBSF4*) Flat Bracket Kits to assemble panel panes (two near side, two far side); secure brackets with #12 Screws (*OR-CFHWPHPS*)

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Vertical Blanking Panels:

- Cut both Panels to width 1.
- 2. Assemble the lower pane of the Blanking Panel, and assemble the lower Flat Brackets on the upper pane
- Measure and cut upper pane to height 3.
- Install the Bulb Seals 4.
- 5. Install the upper Panel into the upper Pane
- 7.
- Insert Inside Corners into upper pane
 Snap Inside Corner up into the Containment Beam above it
 Secure the Blanking Panel to the Containment Beam using Flat Brackets (OR-CFBSF4)
 and #12 Screws (OR-CFHWPHPS) 8.
- 9. Secure Blanking Panel to the floor as shown below

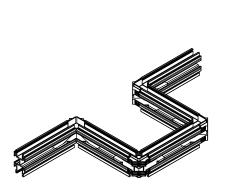


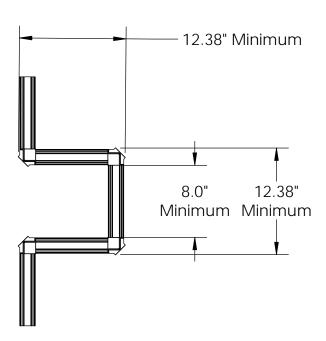
Use Anchor Bracket Kit (OR-CFAB2) and #12 Screws (OR-CFHWPHPS) to secure panel to floor, as shown above.

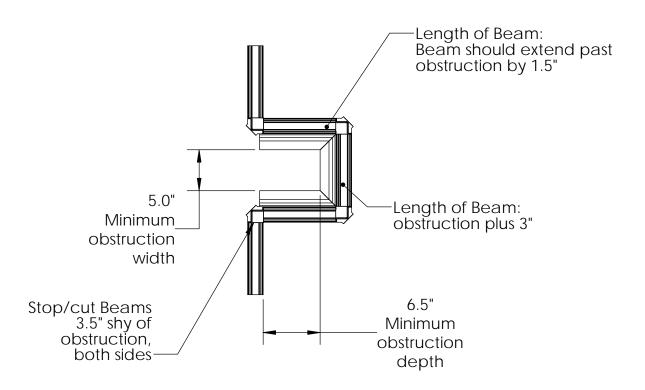
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Vertical Obstruction:

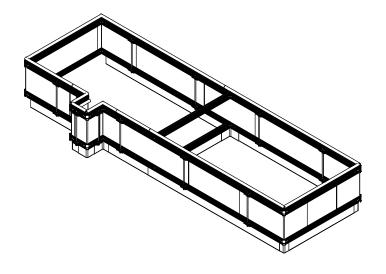


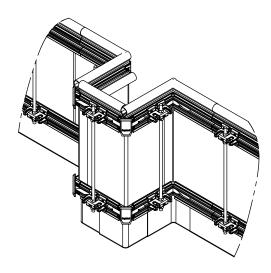






Vertical Obstruction:





Outside Corner

Flap Seal

Panels not shown for clarity

-On a vertical obstruction, a seal can be made above or on the sides

To go around a vertical obstruction, the following materials are needed:

Two Inside Corner Kits (*OR-CFCI4*)
Two Outside Corner Kits (*OR-CFCO4*)
One Hanger Kit (*OR-CFBHB8*)
Two Cap/Badge Kits (*OR-CFCAP4*),
optional

Adequate length of Beams (*OR-CFB90x*)

Adequate length of Flap Seal (*OR-CFSC96*)

Adequate number of Beam Splice Kits (*OR-CFSB4*) to install flap seal Adequate length of Bulb Seal (*OR-CFBS296*)

Adequate number of Panels (*OR-CFPMW4848*)

One #12 Screw Kit (*OR-CFHWPHPS*) One #4 Screw Kit (*OR-CFHWTRX*)

On a vertical obstruction, a seal can be made below or on the sides

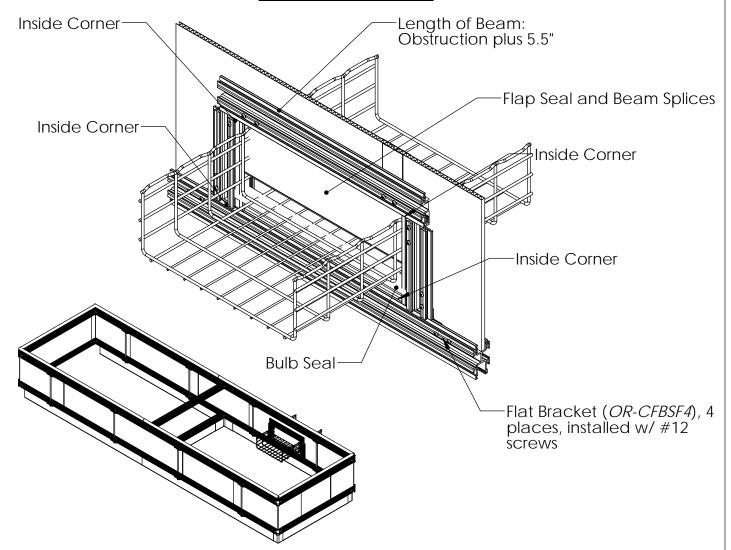
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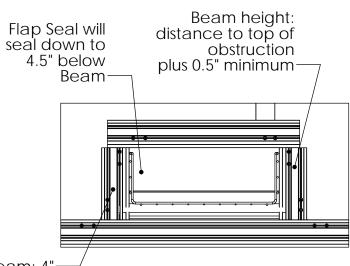
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Horizontal Obstruction:



To go around a horizontal obstruction, the following materials are needed:

Two Inside Corner Kits (*OR-CFCI4*)
One Flat Bracket Kit (*OR-CFBSF4*)
Adequate length of Beams (*OR-CFB90x*)
Adequate length of Flap Seal (*OR-CFSC96*)
Adequate number of Beam Splice Kits (*OR-CFSB4*) to install flap seal
Adequate length of Bulb Seal (*OR-CFBS296*)
Adequate number of Panels (*OR-CFPMW4848*)
One #12 Screw Kit (*OR-CFHWPHPS*)
One #4 Screw Kit (*OR-CFHWTRX*)

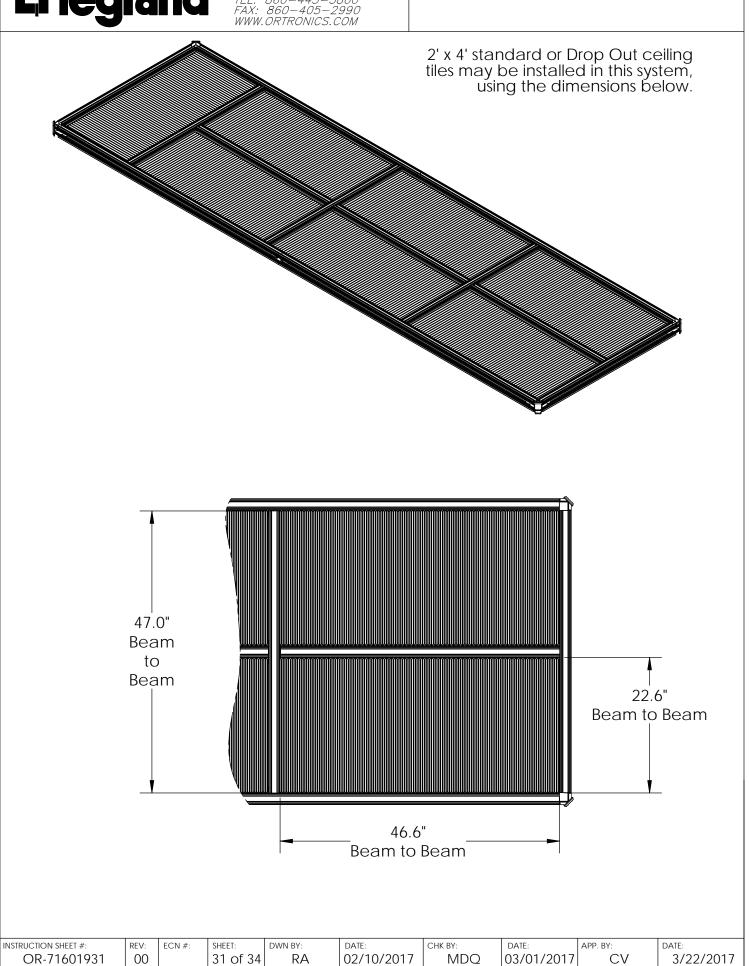


Minimum height of Beam: 4"

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Horizontal Aisle Kit Component Quantities:

Aisle Kit Part number	OR-CFPMW48108 - MULTIWALL PANEL 48" X 108"	OR-CFCI4 - INSIDE CORNER, KIT OF 4	OR-CFCO4 - OUTSIDE CORNER KIT OF 4	OR-CFRC12 - PANEL CLIP, KIT OF 12	OR-CFCAP4 - CAP LOGO, KIT OF 4	<i>OR-CFBHB8</i> - HANGER, KIT OF 8	OR-CFBC - CABINET BRACKET, EACH	<i>OR-CFSB4</i> - BEAM SPLICE, KIT OF 4	OR-CFHWPHS - KIT SCREW #12-1/2 PHILLIPS QTY 50 W/ BIT	OR-CFHWTRX - KIT SCREW #4-1/2 TORX ZINC QTY 100 WITH BIT	OR-CFSP3108 - H PROFILE PANEL SPLICE, 108"	OR-CFB90P - BEAM, CONTAINMENT, PLASTIC 90"	OR-CFB90A - BEAM, CONTAINMENT, ALUMINUM 90"	<i>OR-CFSC96 -</i> FLAP SEAL, 96"	OR-CFCSB4 - CORNER SUPPORT BRACKET, KIT OF 4
OR-CFHZA415CSA	2	2	1	2	1	0	8	8	2	1	1	0	7	6	2
OR-CFHZA415CSP	2	2	1	2	1	0	8	8	2	1	1	7	0	6	2
OR-CFHZA415RSA	2	2	1	2	1	1	0	8	2	1	1	0	7	6	2
OR-CFHZA415RSP	2	2	1	2	1	1	0	8	2	1	1	7	0	6	2
OR-CFHZA420CSA	3	3	1	3	1	0	12	10	2	1	2	0	10	8	3
OR-CFHZA420CSP	3	3	1	3	1	0	12	10	2	1	2	10	0	8	3
OR-CFHZA420RSA	3	3	1	3	1	1	0	10	2	1	2	0	10	8	3
OR-CFHZA420RSP	3	3	1	3	1	1	0	10	2	1	2	10	0	8	3
OR-CFHZA430CSA	4	4	1	4	1	0	16	14	3	1	2	0	13	10	4
OR-CFHZA430CSP	4	4	1	4	1	0	16	14	3	1	2	13	0	10	4
OR-CFHZA430RSA	4	4	1	4	1	2	0	14	3	1	2	0	13	10	4
OR-CFHZA430RSP	4	4	1	4	1	2	0	14	3	1	2	13	0	10	4
OR-CFHZA440CSA	5	6	1	4	1	0	24	20	4	1	3	0	19	14	6
OR-CFHZA440CSP	5	6	1	4	1	0	24	20	4	1	3	19	0	14	6
OR-CFHZA440RSA	5	6	1	4	1	3	0	20	4	1	3	0	19	14	6
OR-CFHZA440RSP	5	6	1	4	1	3	0	20	4	1	3	19	0	14	6

Horizontal Aisle Kit Part Numbers:

OR-CFHZA

Beam material: A = aluminum, P= plastic

Support style: R = roof, C= cabinet

Aisle length (feet)

Aisle width(feet)

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4' Vertical Aisle Kit Component Quantities:

Aisle Kit Part number	OR-CFPMW4848-MULTIWALL PANEL 48" X 48"	<i>OR-CFCI4</i> - INSIDE CORNER, KIT OF 4	OR-CFCO4 - OUTSIDE CORNER KIT OF 4	<i>OR-CFRC12</i> - PANEL CLIP, KIT OF 12	OR- <i>CFCAP4</i> - CAP LOGO, KIT OF 4	<i>OR-CFBHB8</i> - HANGER, KIT OF 8	<i>OR-CFBC -</i> CABINET BRACKET, EACH	OR-CFSB4 - BEAM SPLICE, KIT OF 4	OR-CFHWPHS - KIT SCREW #12-1/2 PHILLIPS QTY 50 W/ BIT	<i>OR-CFHWTRX -</i> KIT SCREW #4-1/2 TORX ZINC QTY 100 WITH BI	<i>OR-CFSP348</i> - H PROFILE PANEL SPLICE, 48"	<i>OR-CFB90P</i> - BEAM, CONTAINMENT, PLASTIC 90"	<i>OR-CFB90A</i> - BEAM, CONTAINMENT, ALUMINUM 90"	<i>OR-CFSC96</i> - FLAP SEAL, 96"	<i>OR-CFBS296</i> - BULB SEAL, 96"
OR-CFVTA415CSA	12	8	2	4	2	2	8	8	2	1	8	0	18	6	6
OR-CFVTA415CSP	12	8	2	4	2	2	8	8	2	1	8	18	0	6	6
OR-CFVTA415RSA	12	4	2	4	2	2	0	8	2	1	8	0	14	6	6
OR-CFVTA415RSP	12	4	2	4	2	2	0	8	2	1	8	14	0	6	6
OR-CFVTA420CSA	14	10	2	5	2	3	12	12	3	2	10	0	24	8	8
OR-CFVTA420CSP	14	10	2	5	2	3	12	12	3	2	10	24	0	8	8
OR-CFVTA420RSA	14	6	2	5	2	3	0	12	2	1	10	0	20	8	8
OR-CFVTA420RSP	14	6	2	5	2	3	0	12	2	1	10	20	0	8	8
OR-CFVTA430CSA	20	16	2	6	2	4	16	16	4	2	16	0	34	10	10
OR-CFVTA430CSP	20	16	2	6	2	4	16	16	4	2	16	34	0	10	10
OR-CFVTA430RSA	20	8	2	6	2	4	0	16	3	2	16	0	26	10	10
OR-CFVTA430RSP	20	8	2	6	2	4	0	16	3	2	16	26	0	10	10
OR-CFVTA440CSA	26	22	2	8	2	6	24	24	6	3	20	0	46	14	14
OR-CFVTA440CSP	26	22	2	8	2	6	24	24	6	3	20	46	0	14	14
OR-CFVTA440RSA	26	12	2	8	2	6	0	24	4	2	20	0	38	14	14
OR-CFVTA440RSP	26	12	2	8	2	6	0	24	4	2	20	38	0	14	14
\		1 1 1													

Vertical Aisle Kit Part Numbers:

OR-CFVTA

Beam material: A = aluminum, P= plastic

Support style: R = roof, C= cabinet

Aisle length (feet)

Aisle height(feet)

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8' Vertical Aisle Kit Component Quantities:

OR-CFVTA

Beam material: A = aluminum, P= plastic

Support style: R = roof, C= cabinet

Aisle length (feet)

Aisle height(feet)

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