

Installation Instructions

HOT AISLE CONTAINMENT

Safety Information



WARNING: Improper use of this product may lead to serious injury or death. Read and understand all instructions for proper installation and use of this product

Installation of aisle Containment products may require the use of ladder, Scaffolds, and other climbing tools. Follow all climbing device procedures and observe all safety and warning precautions.

The Aisle containment door components are heavy and large. This requires that at least two personnel be used for assembly and installation. Obtain adequate assistance or hire professional equipment riggers.

Intended Use

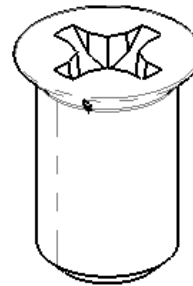
Install this rack only in a restricted service environment, such as a data center. Use indoors only, in environmentally controlled areas; do not use outdoors, in harsh environments or in air-handling spaces. Use this rack for computer equipment, including servers and peripherals. Allow only qualified service personnel to use this rack.

Tools Required

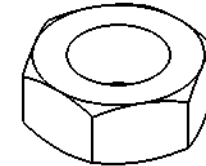
Utility knife
#2 Phillips Screw Driver
10mm Socket Wrench.

Included Hardware

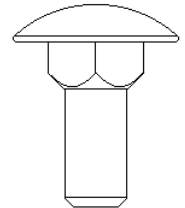
3/8" -16 UNC
Screw



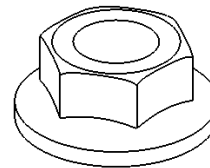
3/8" -16 UNC
Nut
8 each.



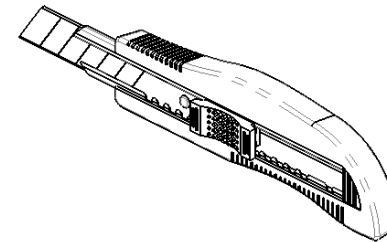
M6 X 16mm
Bolt, RHSN
8 each



M6
Hex Nut
8 each



Utility Knife



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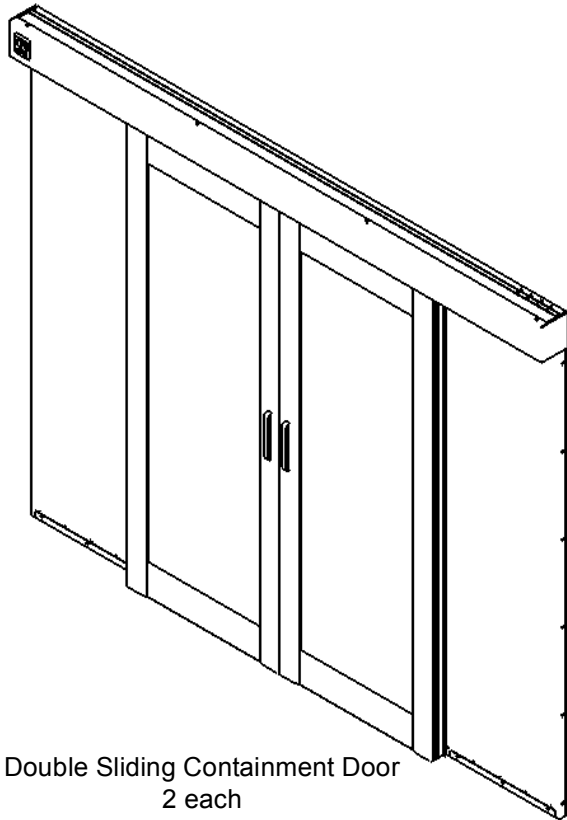
Containment Door Assembly Sequence (1/2) :

Part Identification:



WARNING: Until the frame assembly is attached to the cabinet, the frame must be held up in place by at least one person.

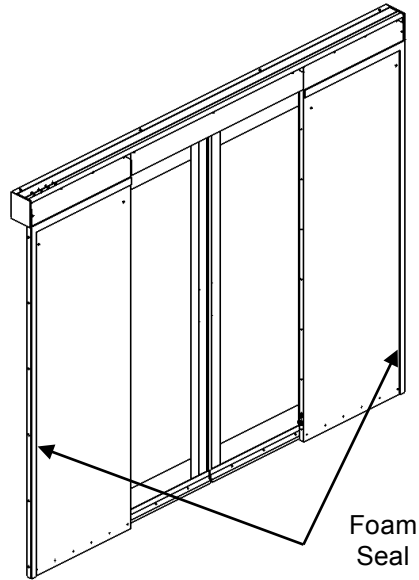
1. Prior to Installing the Doors, place a strip of foam sealing tape on either the door or the Cabinet (Fig.1).
2. Position the Containment door at an angle position (Fig.2).



Double Sliding Containment Door
2 each



Foam Sealing Tape



Back side view of
Containment Door
Fig.1

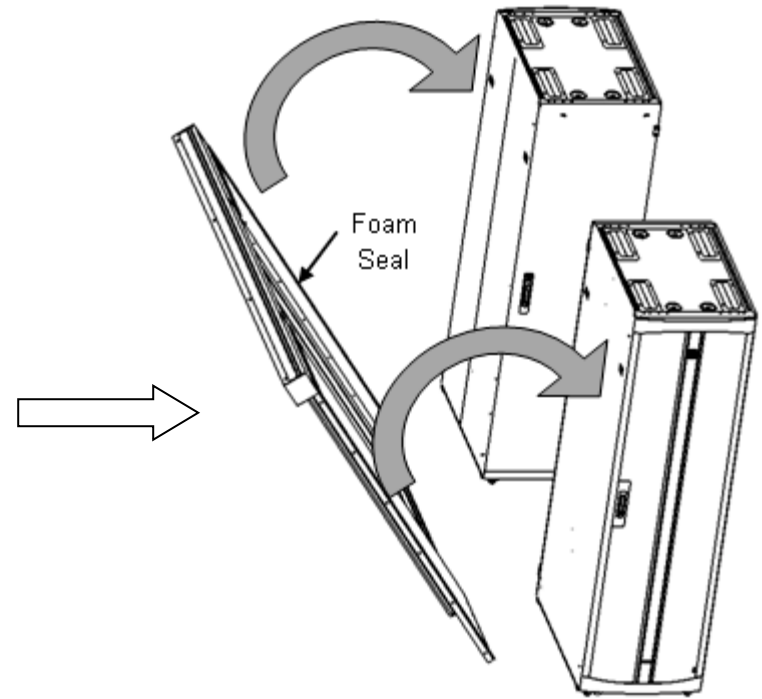


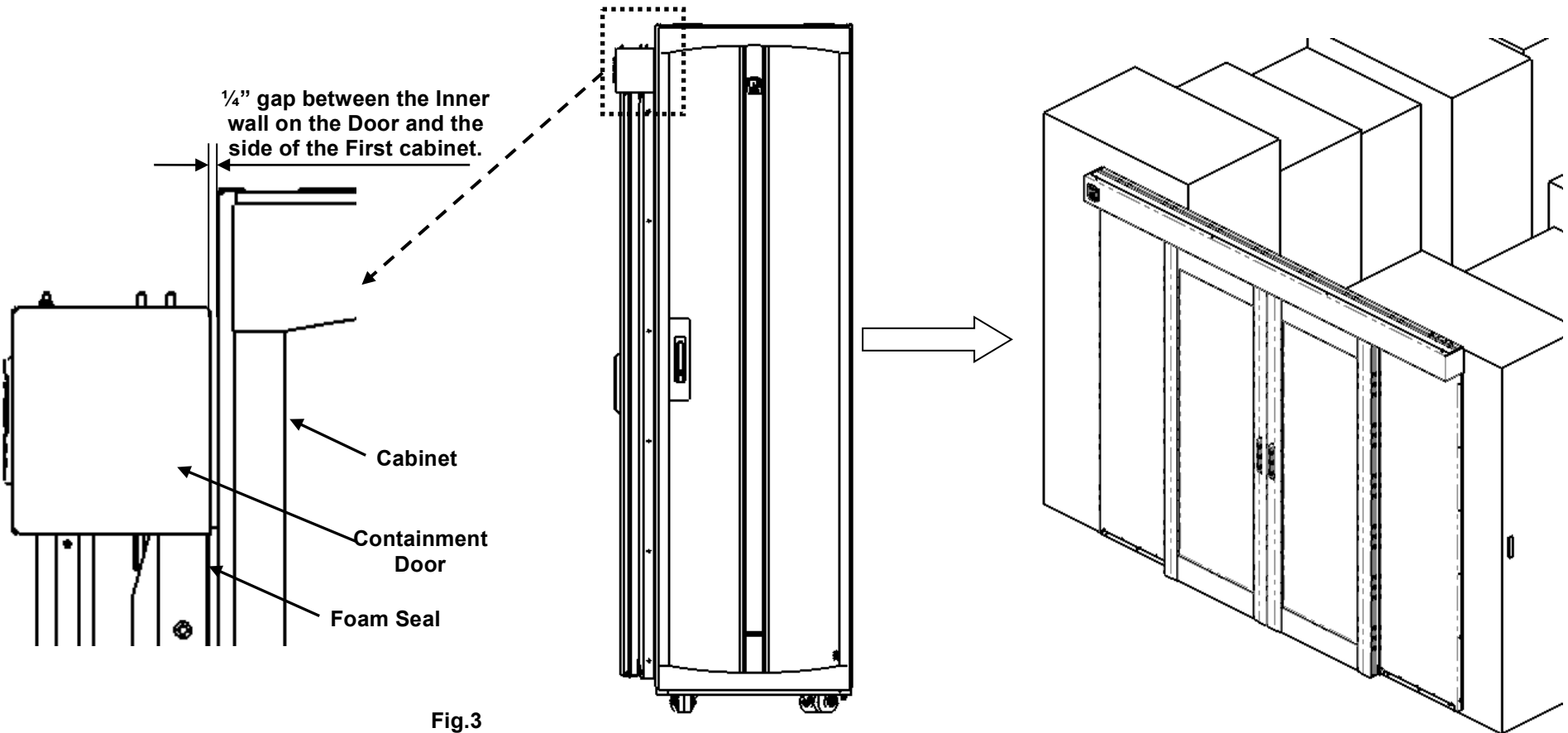
Fig.2

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Containment Door Assembly Sequence (2/2) :

3. Seal the Containment Frame assembly to the side wall of the Cabinet (Fig. 3)
4. After sealed by the Foam tape, There should be $\frac{1}{4}$ " (6.35mm) gap between the inner wall on the door and side of the first cabinet (Fig. 3).

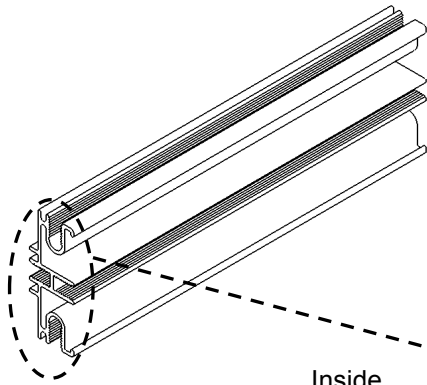


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Containment Structure Assembly Sequence (1/9) :

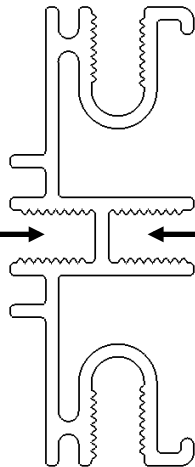
Part Identification:



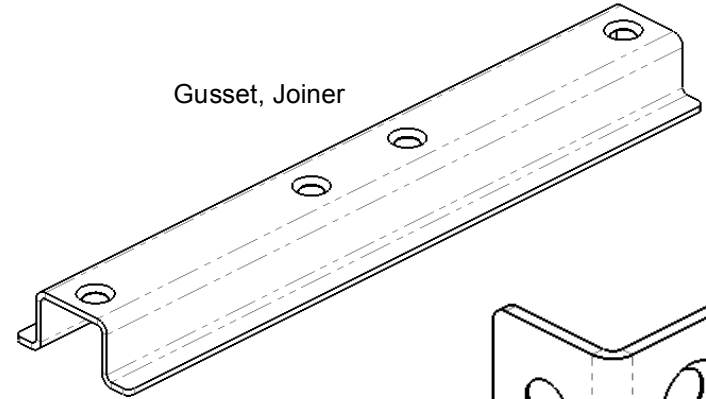
**HAC beam
Extrusion, Thread
Groove 94" & 46"**

**Containment extrusion
orientation.**

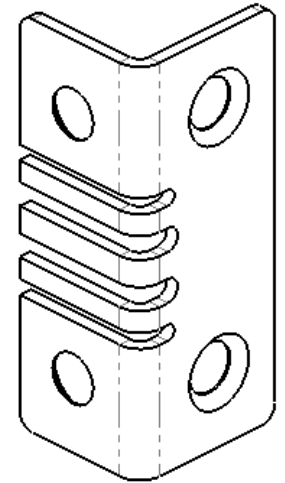
Inside
Containment



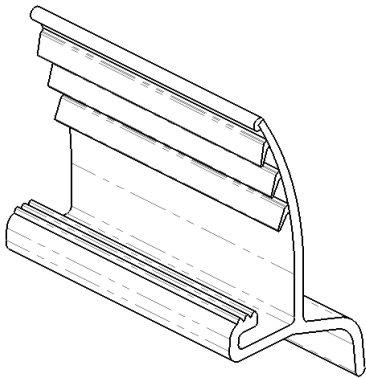
Outside
Containment



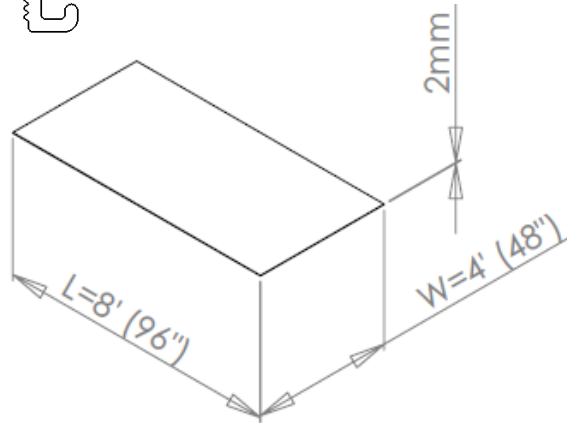
Gusset, Joiner



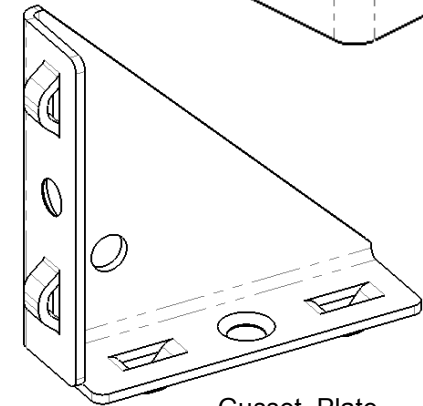
Dam, Corner
8 each



Polycarbonate Clip
2" Length



Polycarbonate panels
(4'W X 8'L X 6mm D Sheets)



Gusset, Plate

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Containment Structure Assembly Sequence (2/9) :

5. Join the two extrusion with Joiner using 3/8"-16UNC screw (fig. 4)

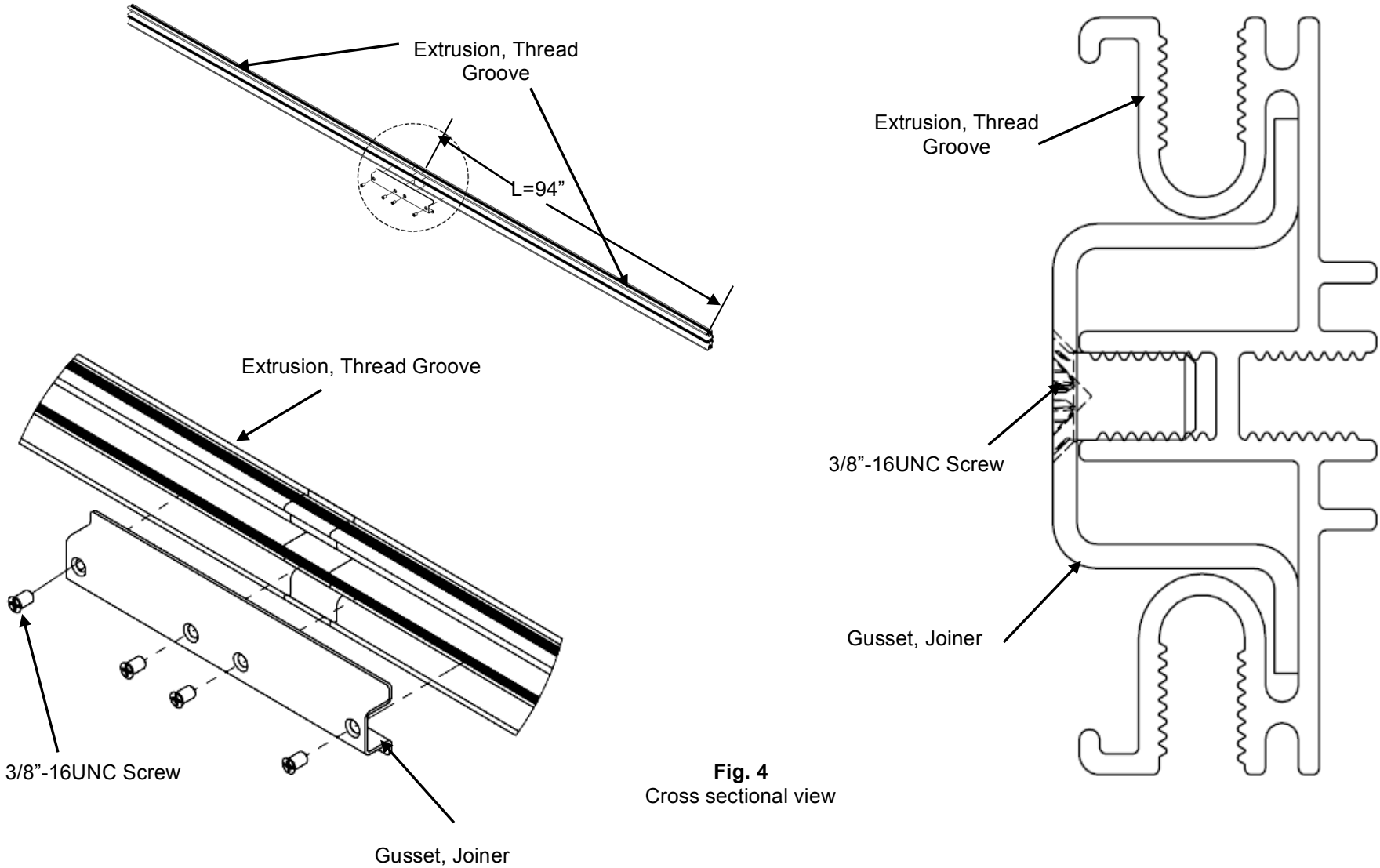


Fig. 4
Cross sectional view

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Containment Structure Assembly Sequence (3/9) :

6. Follow either one of the step for assembling Containment Structure:

- a. Position the Joiner along the length of the cabinet row (Fig. 5).
- b. Position the extrusion piece approximately centers of the cabinet row length and join the extrusion piece on both side using Joiner (Fig. 6).

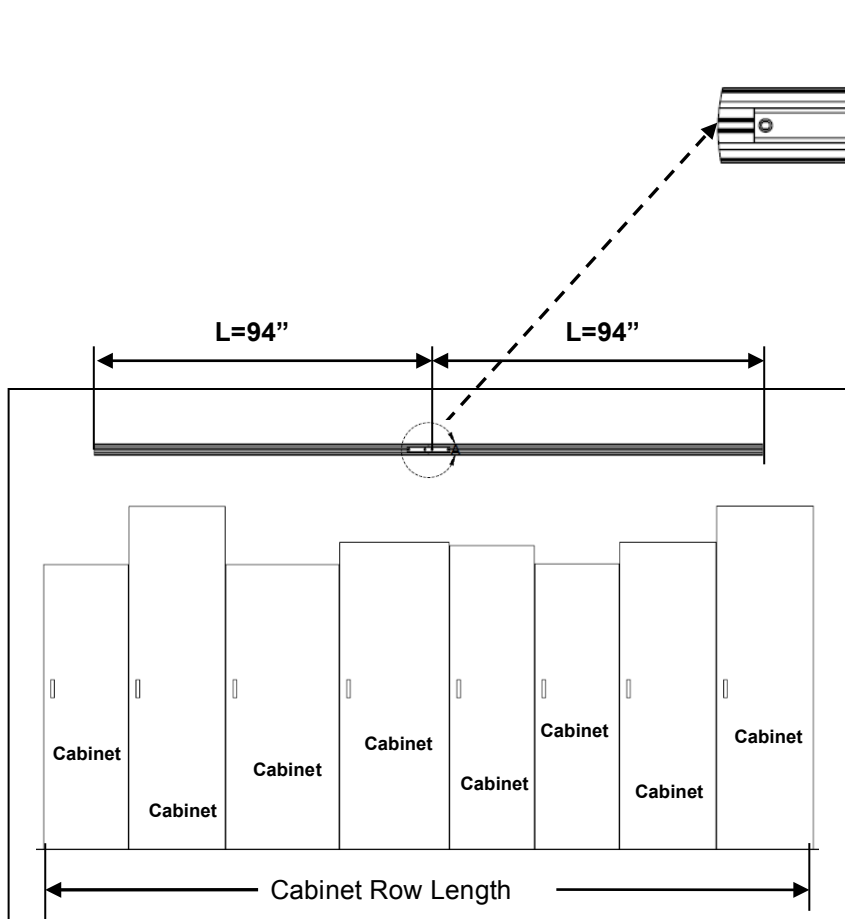


Fig. 5

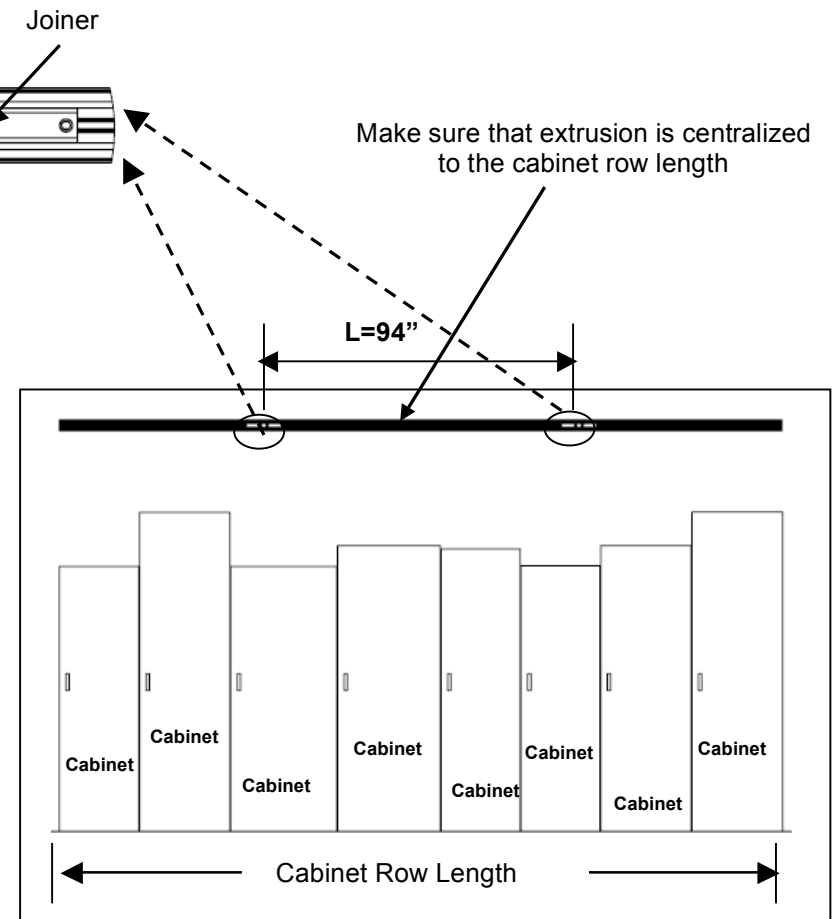


Fig. 6

Installation Instructions

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Containment Structure Assembly Sequence (4/9) :

7. Install the Ceiling drop down mounting to extrusion using 3/8"-16 CSK screw.
8. Hanging the First length Joiner by using 3/8" threaded rod through Ceiling drop down mounting slot with 3/8" Nut (Fig.7),

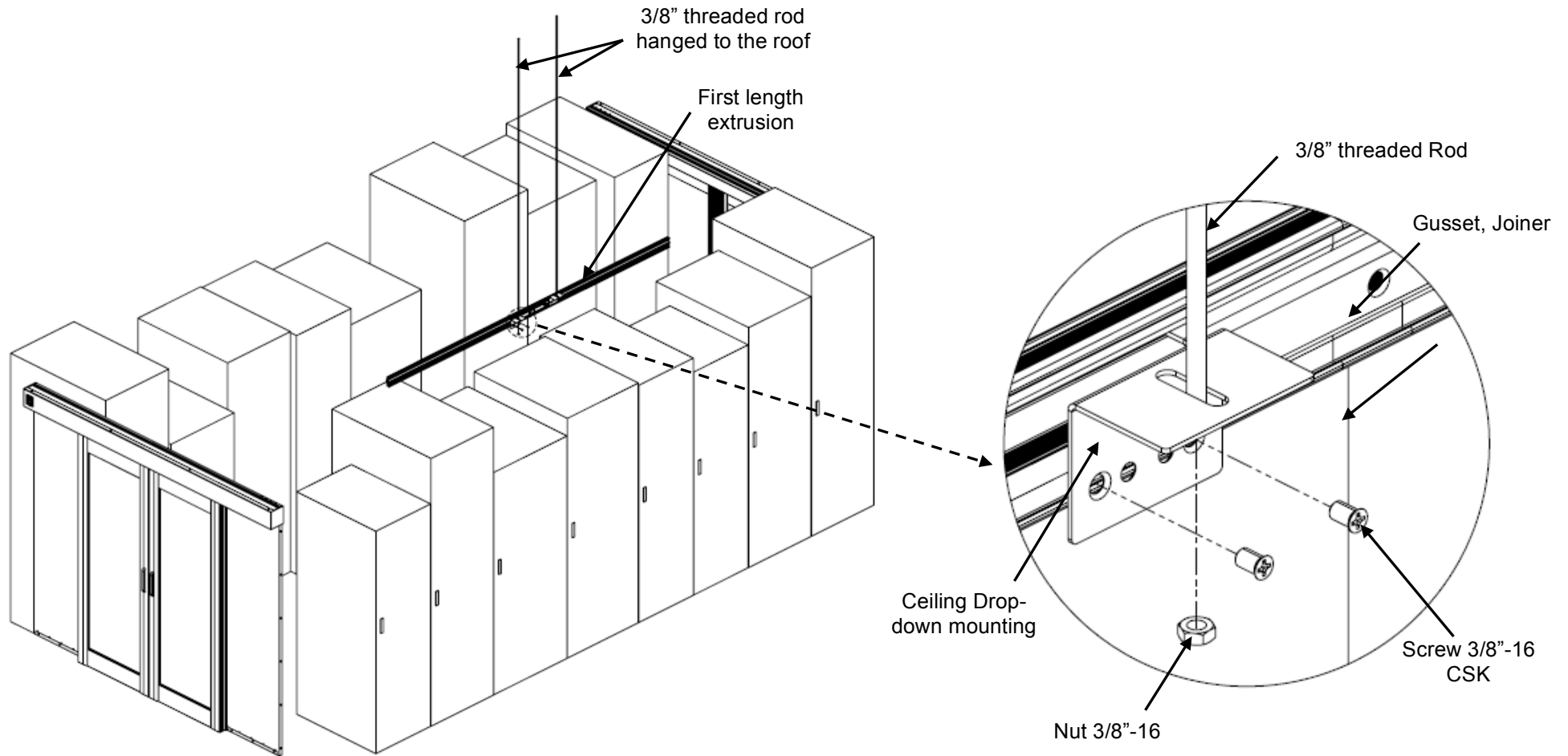


Fig. 7

Installation Instructions

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Containment Structure Assembly Sequence (5/9) :

9. After Cutting the extrusion to the required cabinet row length, hang the second length extrusion at both ends.

10. Repeat steps 5-9 for opposite side of containment row length (Fig.9).

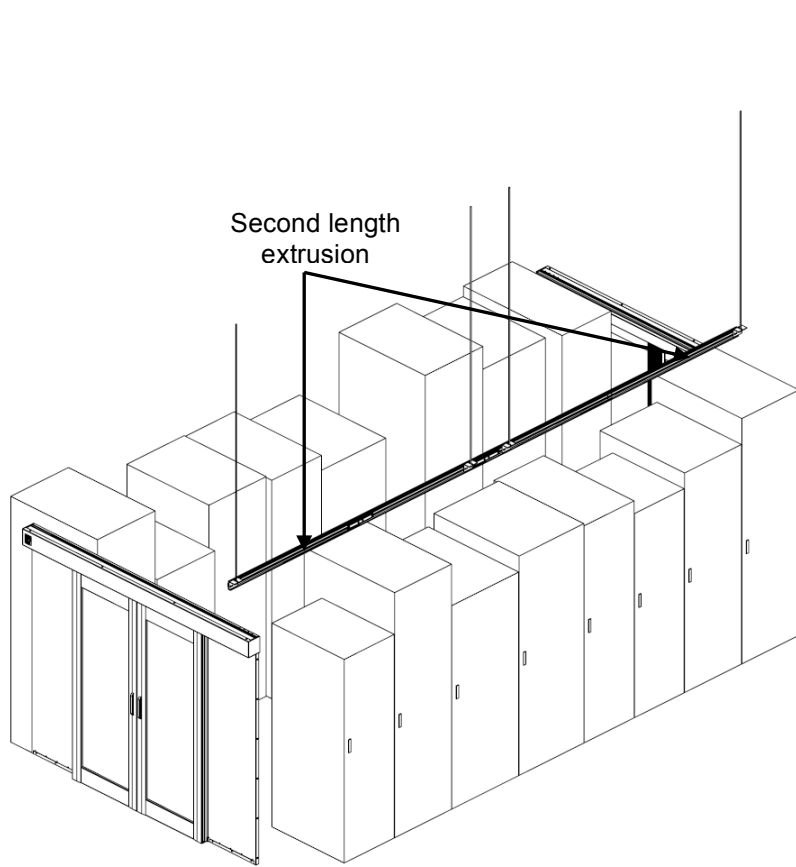


Fig. 8

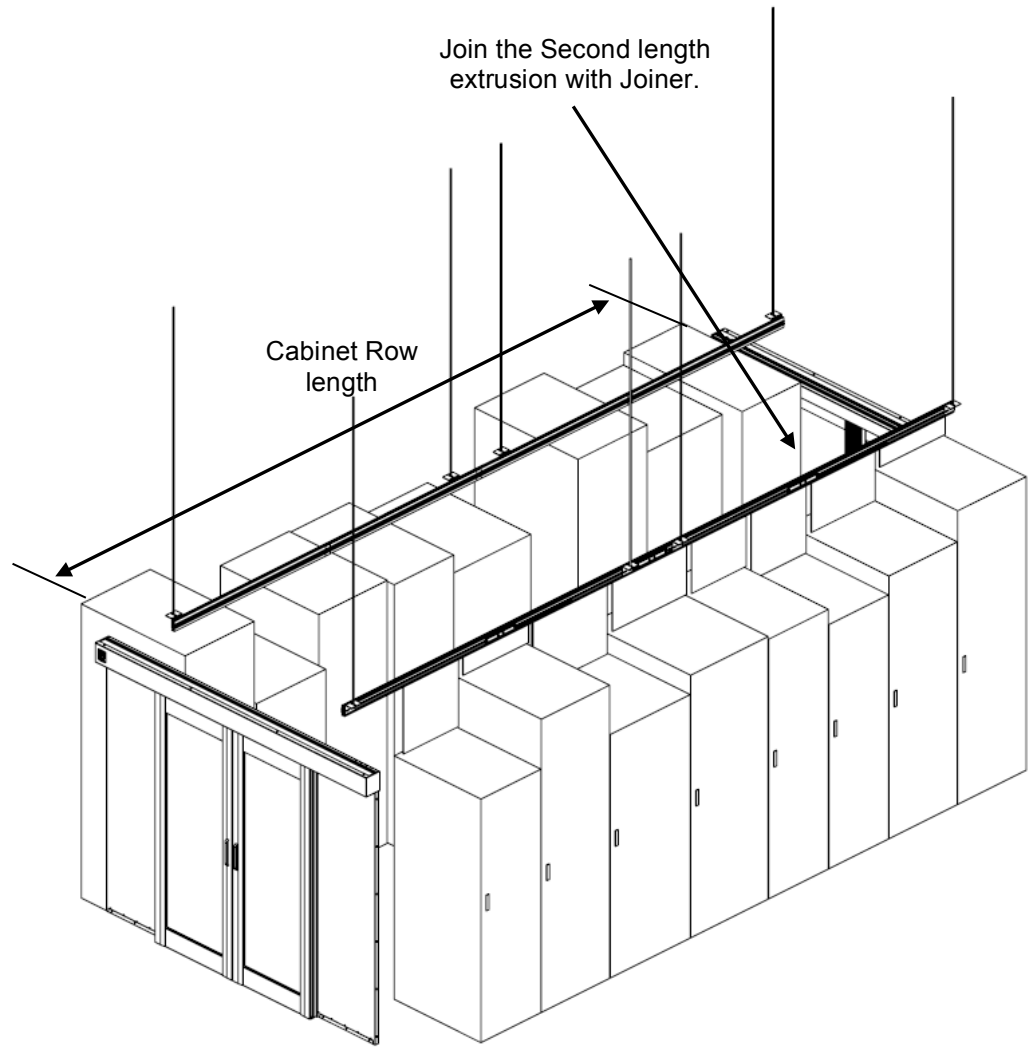


Fig. 9

Installation Instructions

HOT AISLE CONTAINMENT

Containment Structure Assembly Sequence (6/9) :

11. Pre assembled the End Width Extrusion with Dam Corner and Gusset plate by using 3/8"-16UNC screw. (Fig. 10).

12. Install end width onto the existing length assemblies (Fig. 11).

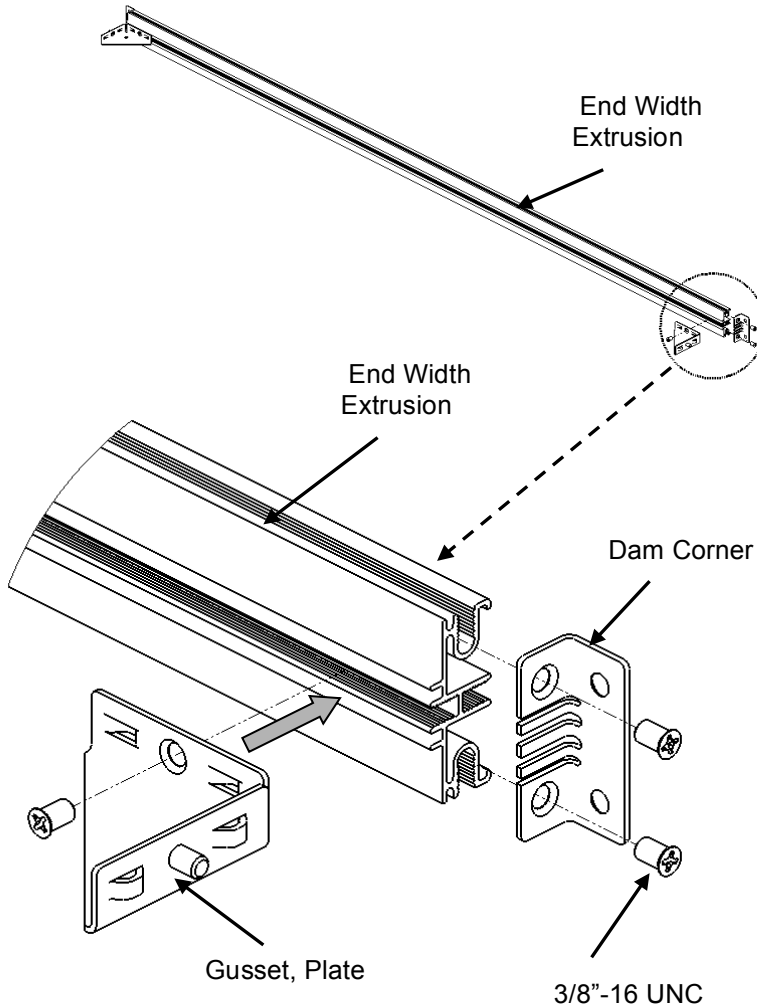


Fig. 10

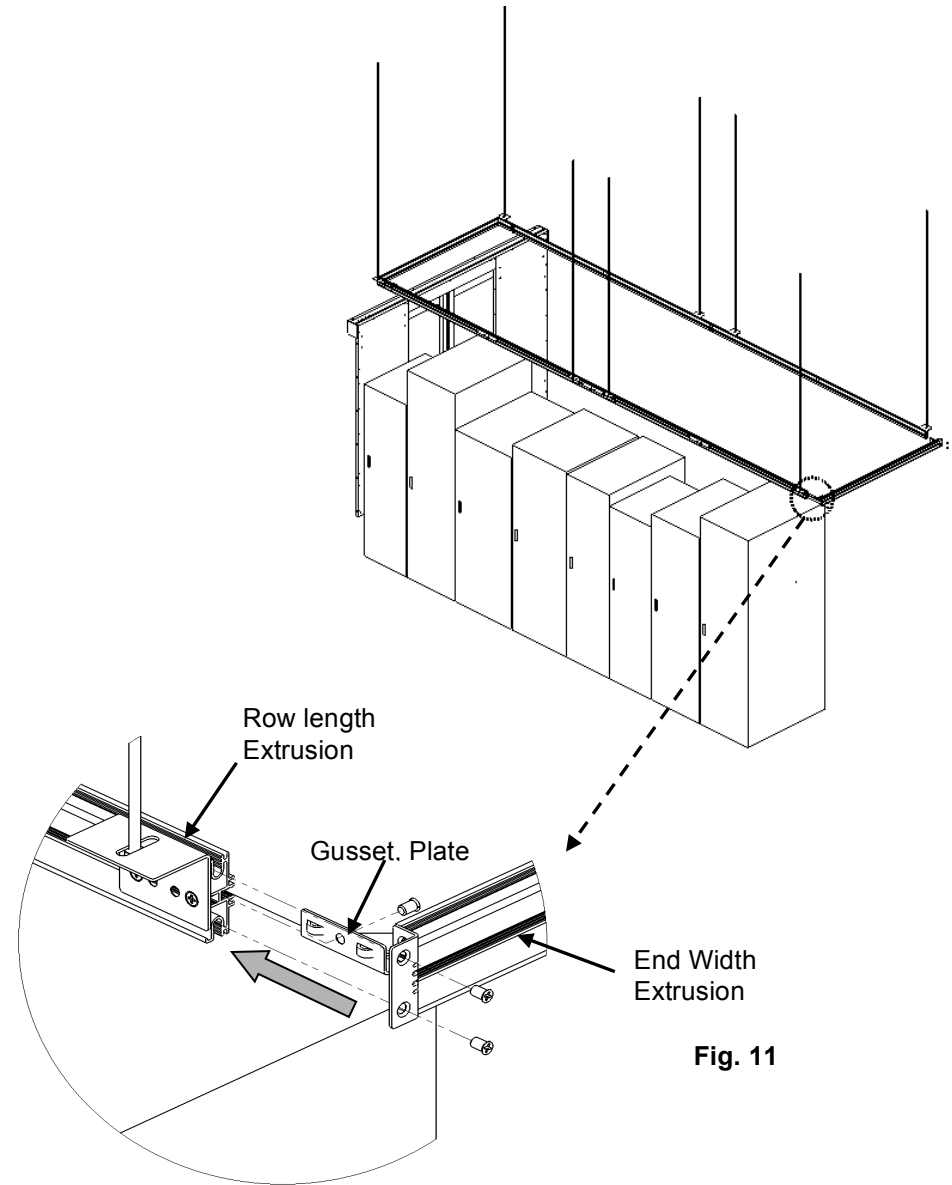


Fig. 11

Installation Instructions

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Containment Structure Assembly Sequence (7/9) :

13. The Vertical Extrusion of the lateral should be cut 3.25 inches (83 mm) less than the cabinet to Roof distance to accommodate for the upper extrusion.

14. Install Extrusion vertically at the each end of Row length Extrusion and End width Extrusion with Gusset plate using 3/8"-16UNC Screws (Fig. 12).

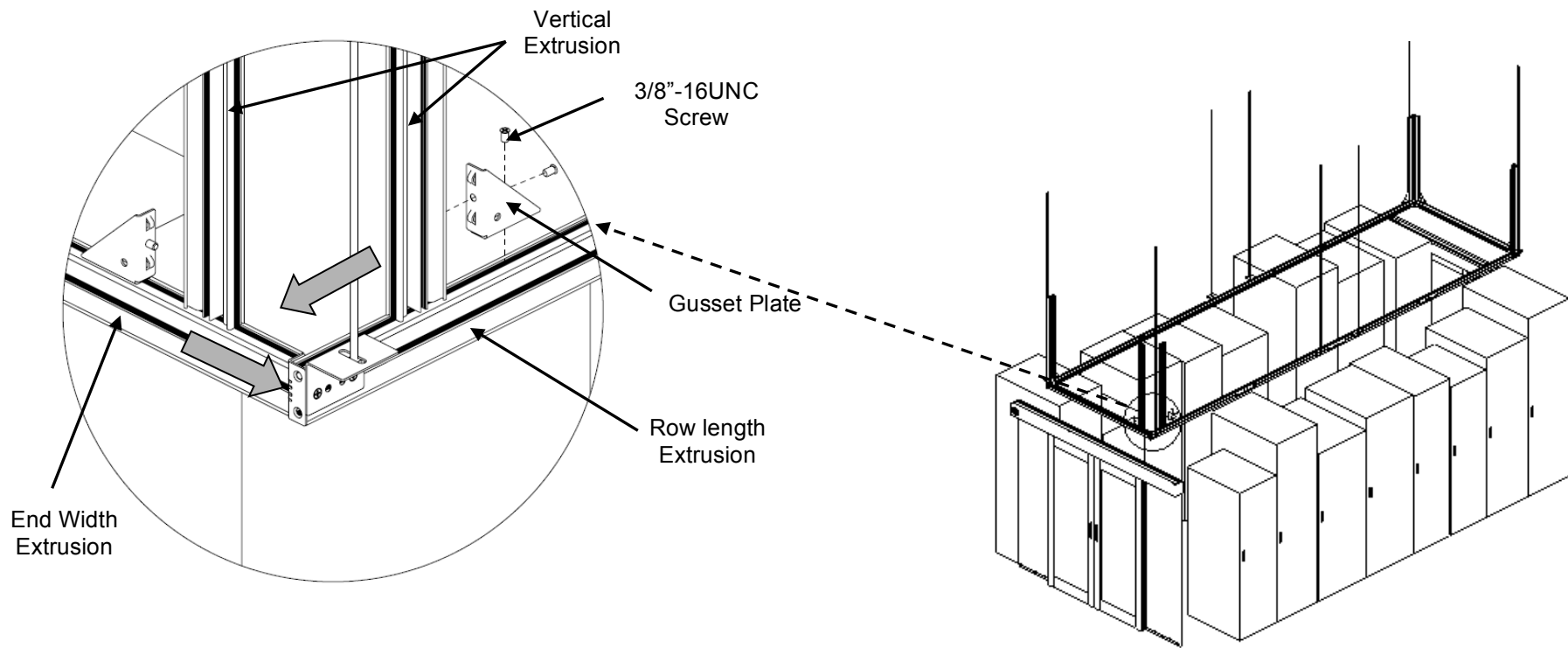


Fig. 12

Installation Instructions

HOT AISLE CONTAINMENT

Containment Structure Assembly Sequence (8/9) :

15. Loosely install the Vertical extrusion to convenient location approximately equal distance along the containment row length. Each Vertical extrusion should have minimum two gusset plate with 3/8"-16UNC screws (Fig. 13).

16. Install extrusion across the containment row length at alternate vertical extrusion on bottom rectangle containment. Each extrusion length should be equal to end width of extrusion.

17. Each adjacent extrusion should have minimum three gusset plate with 3/8"-16UNC screw. (Fig.14).

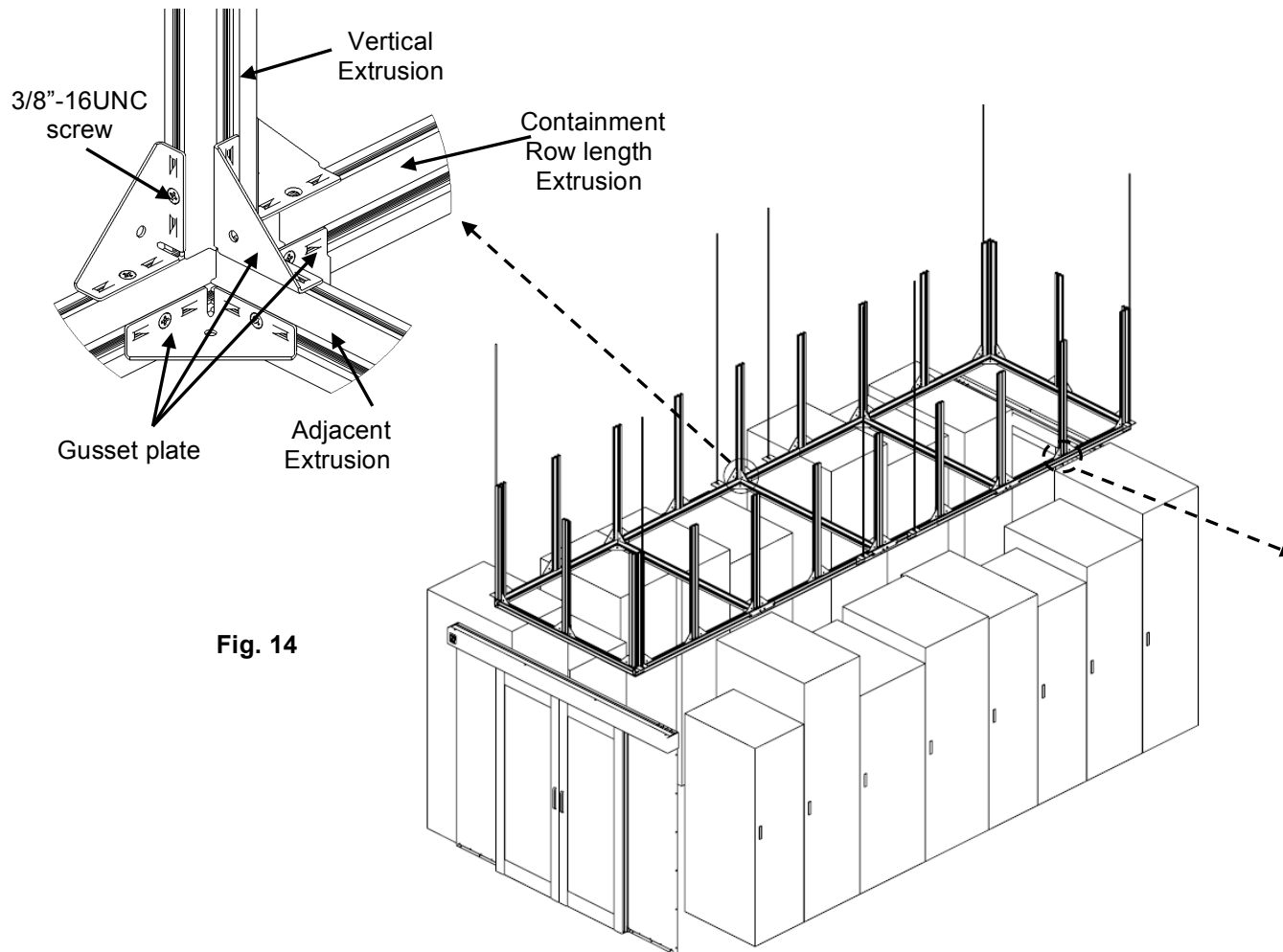


Fig. 14

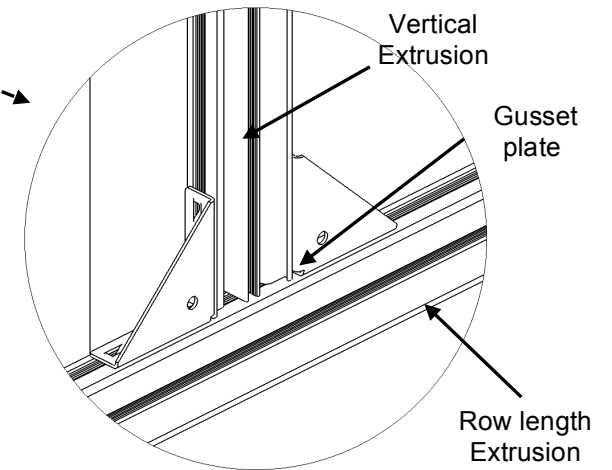


Fig. 13

Installation Instructions

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Containment Structure Assembly Sequence (9/9) :

18. Continue installing the top of containment from row length extrusion, End width extrusion with joiner and Gusset plate using 3/8"-16UNC screws (Fig. 15).

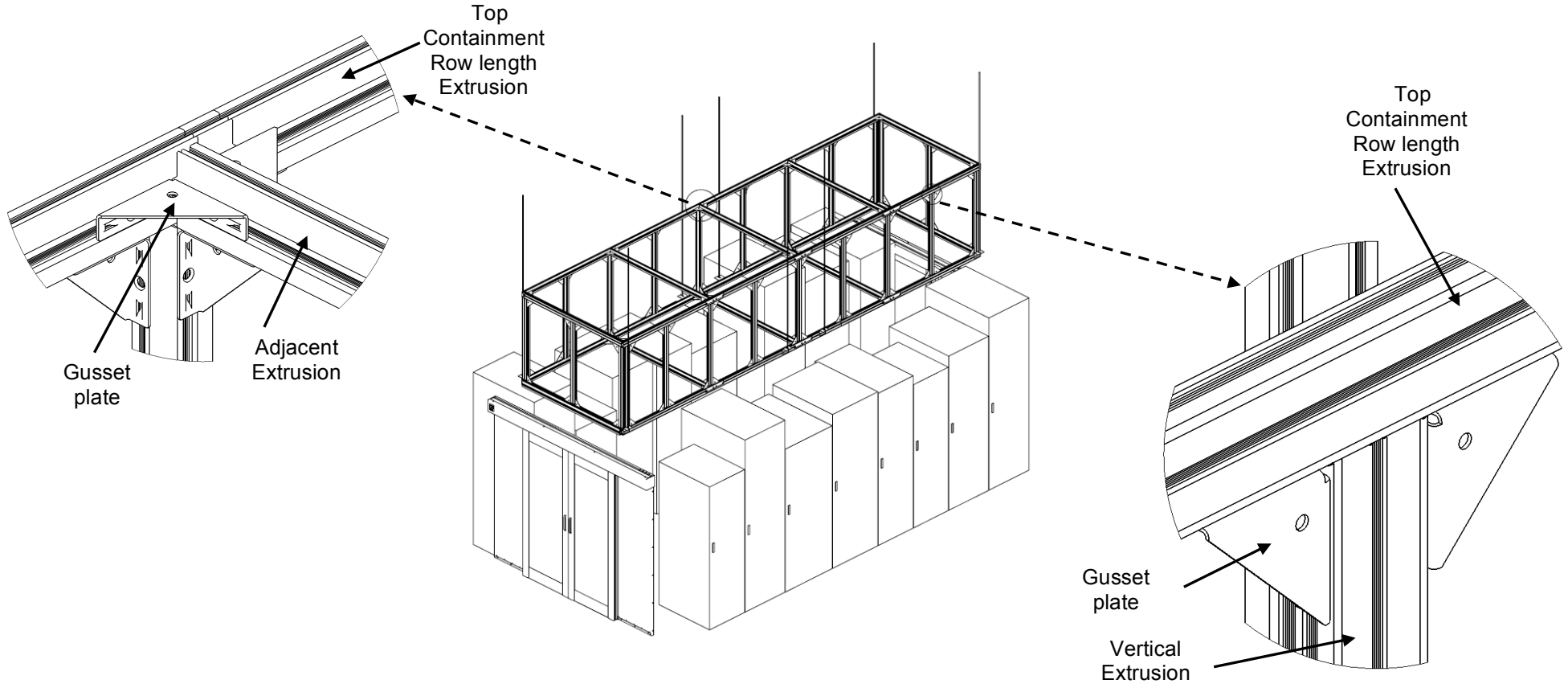


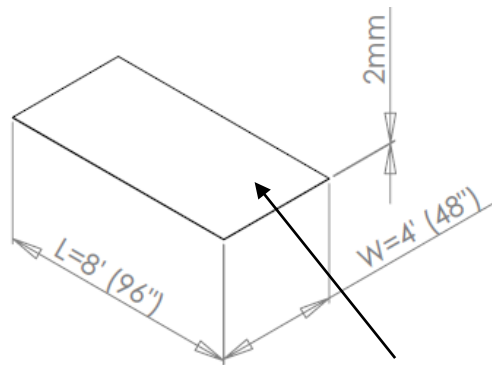
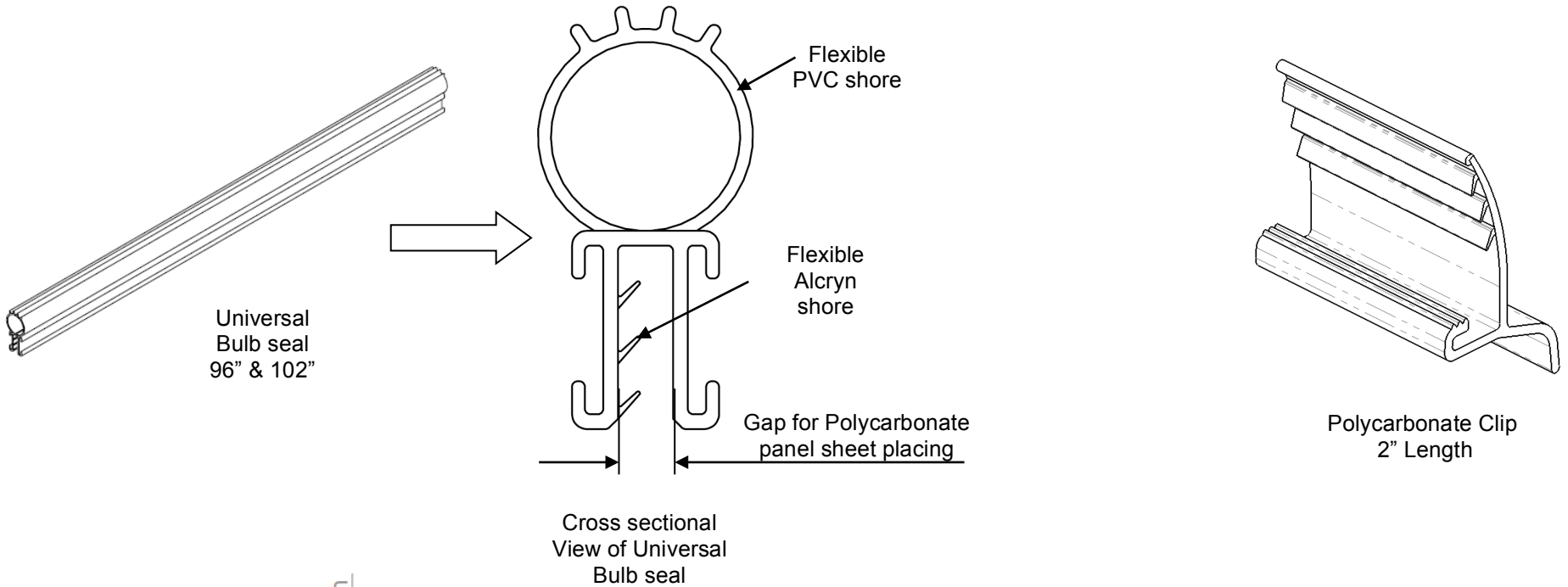
Fig. 15

Installation Instructions

HOT AISLE CONTAINMENT

Header Panel Assembly Sequence (1/5) :

Part Identifications :



Polycarbonate panels
(4'W X 8'L X 6mm D
Sheets)

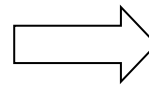
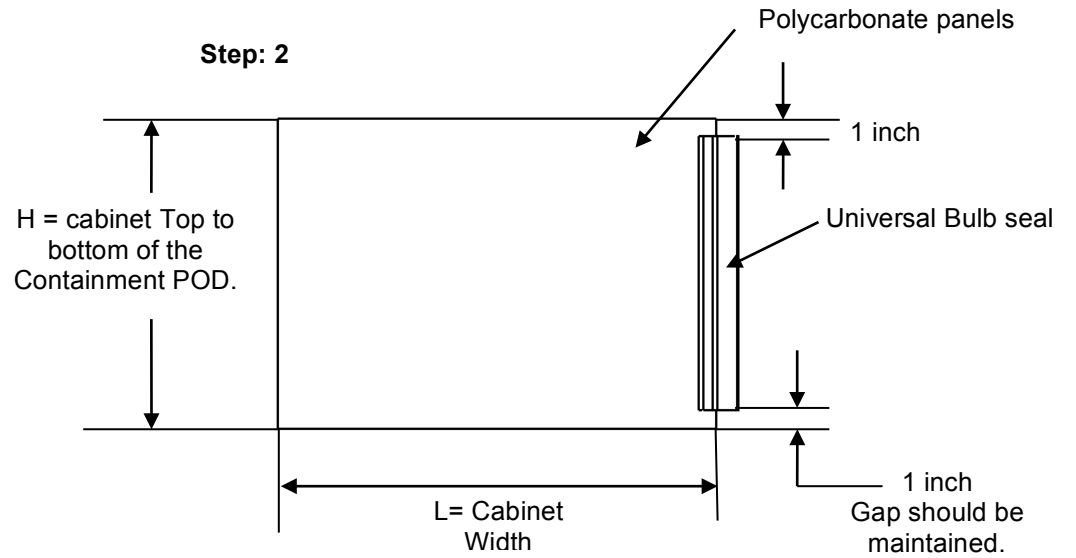
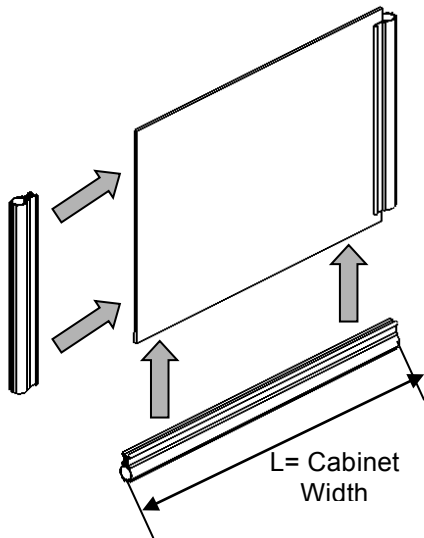
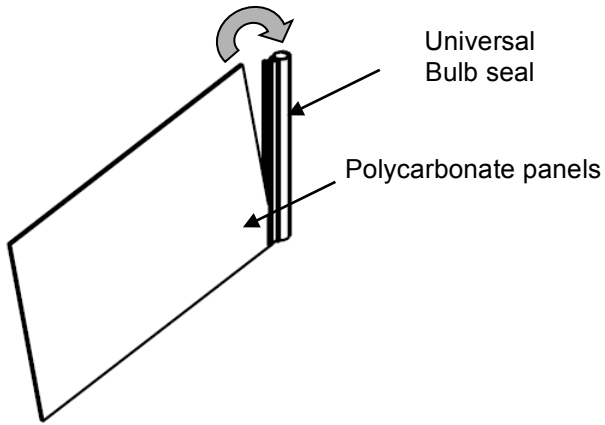
Note: The pre-cut polycarbonate panels can be trimmed down/
resized easily with a razor/ straight edge as required.

Installation Instructions

HOT AISLE CONTAINMENT

Header Panel Assembly Sequence (2/5) :

19. First assemble Header panel (fig. 16).



Step: 3

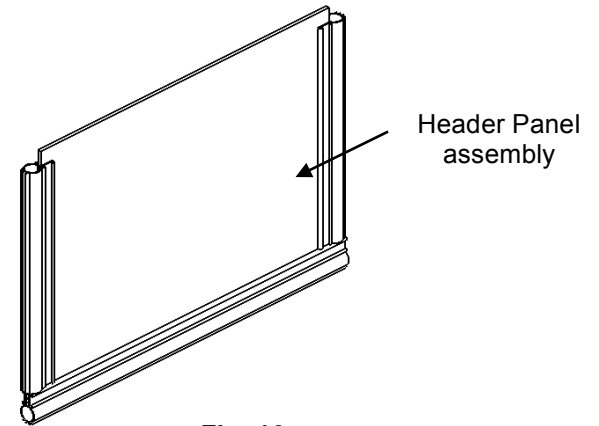


Fig. 16

Installation Instructions

HOT AISLE CONTAINMENT

Header Panel Assembly Sequence (3/5) :

20. Install header panel into the extrusion by holding the polycarbonate clip (Fig. 17 & 18).

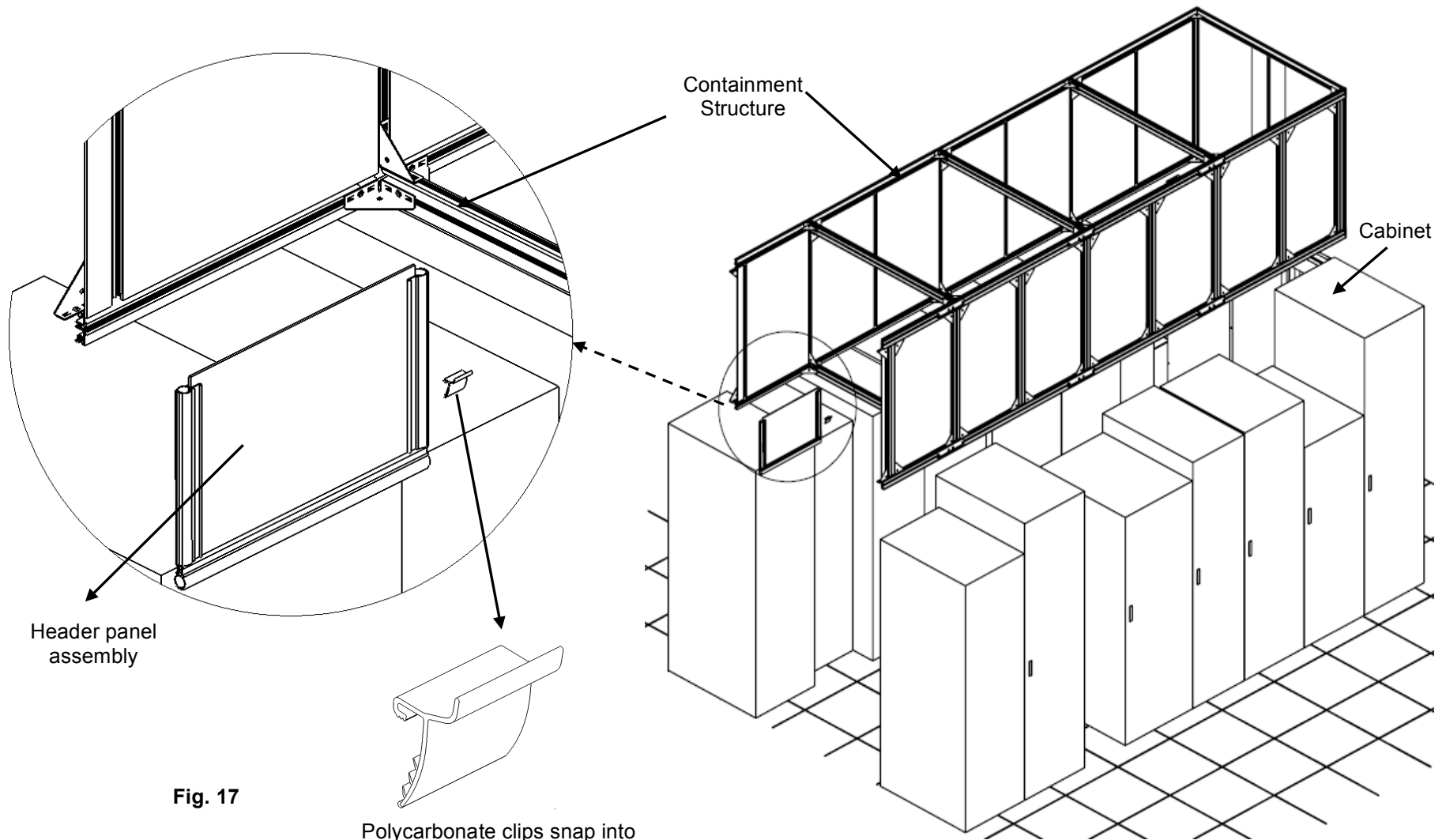


Fig. 17

Polycarbonate clips snap into inside containment extrusion and hold polycarbonate panel in place

Installation Instructions

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Header Panel Assembly Sequence (4/5) :

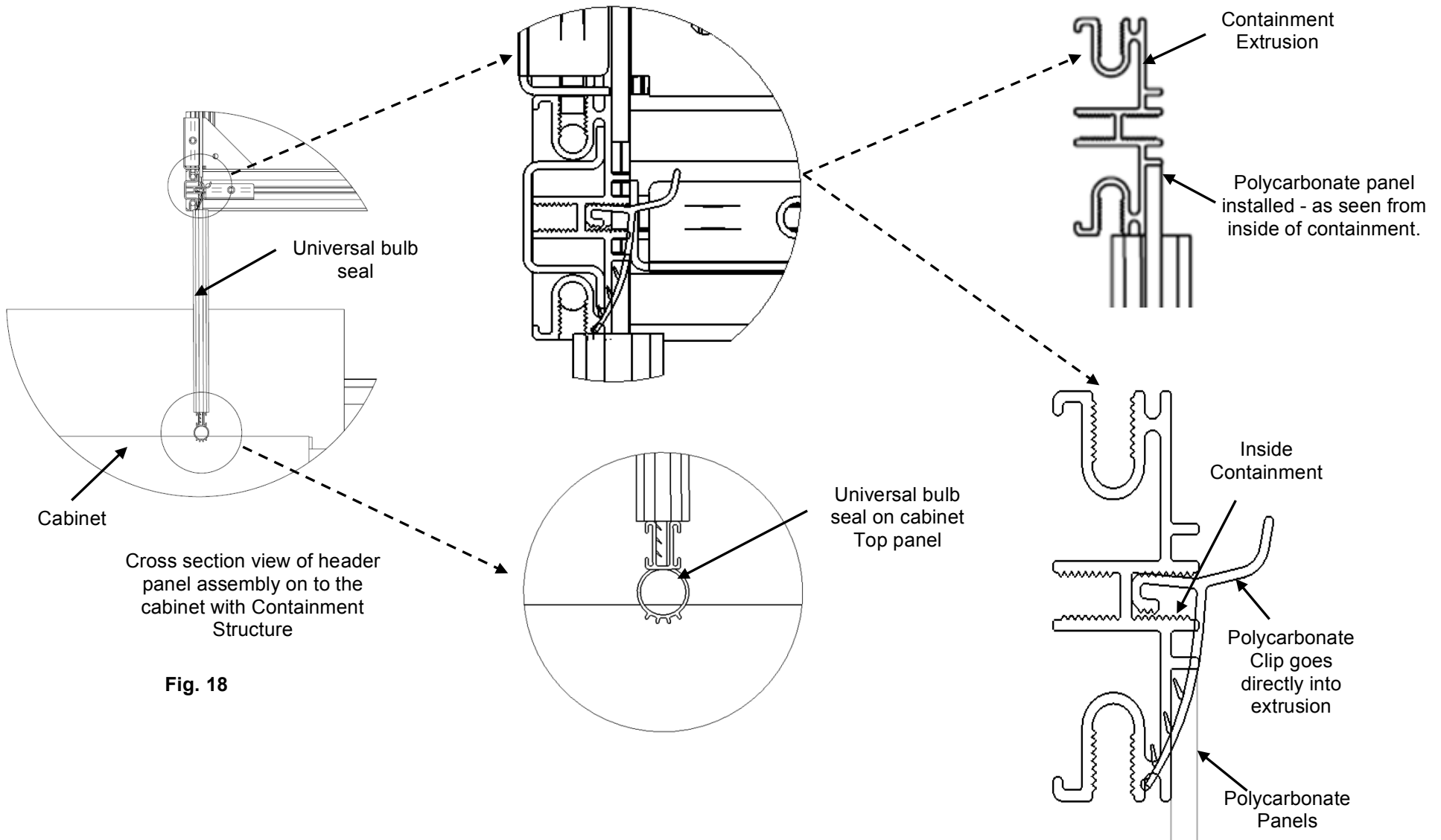


Fig. 18

Installation Instructions

HOT AISLE CONTAINMENT

Header Panel Assembly Sequence (5/5) :

21. Repeat the Header panel installation process for all remaining cabinets (Fig. 19).

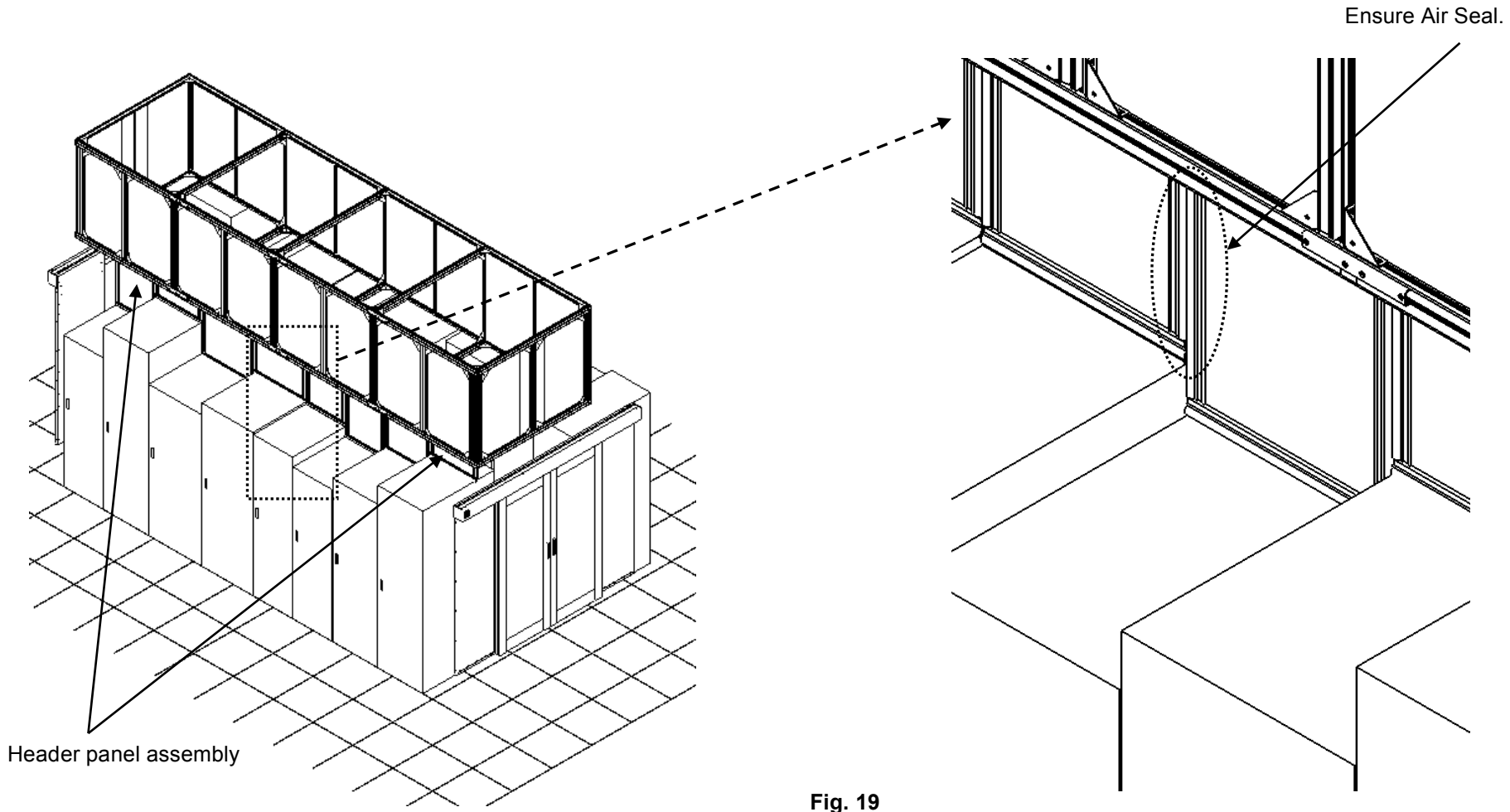


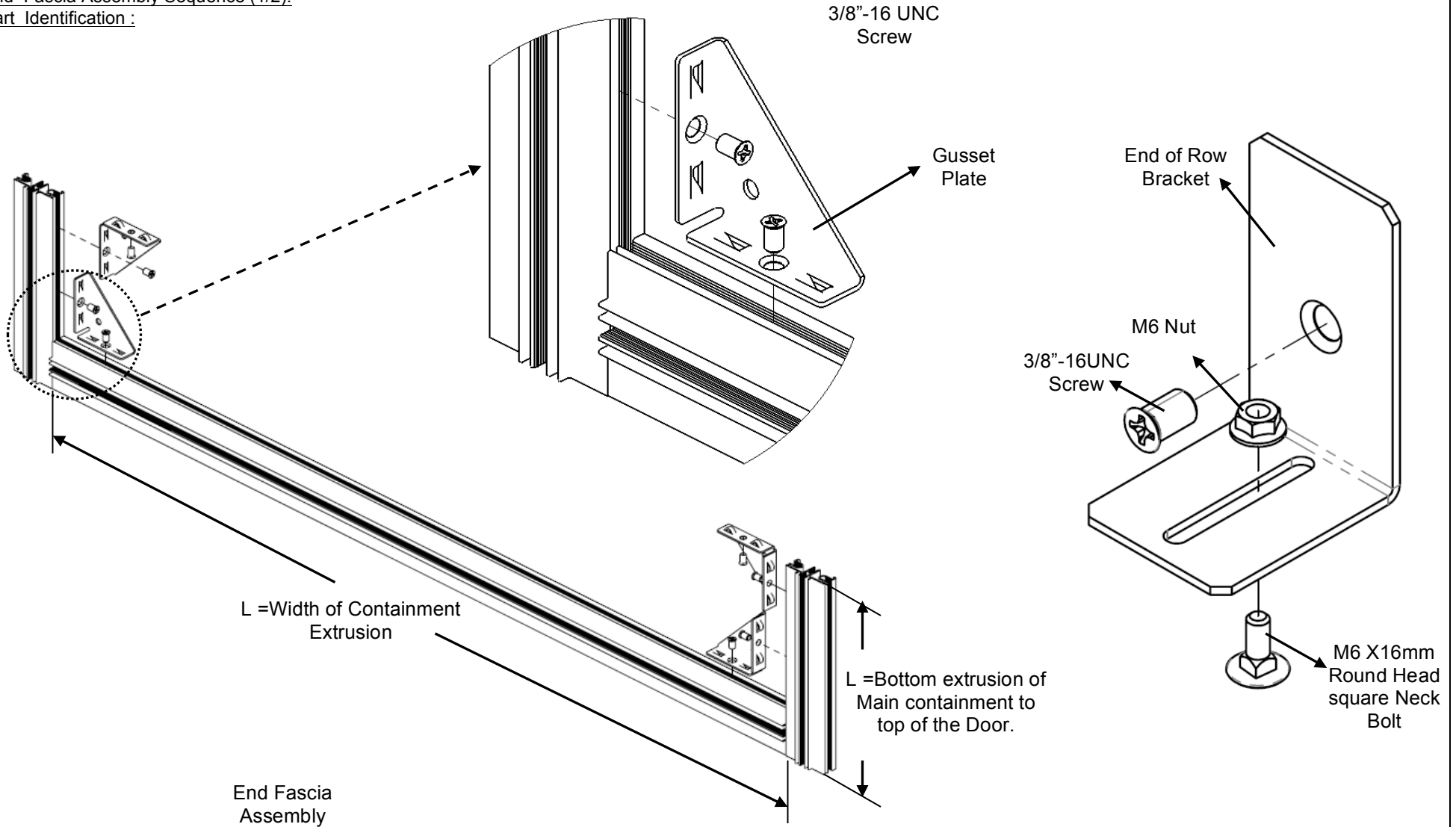
Fig. 19

Installation Instructions

HOT AISLE CONTAINMENT

End Fascia Assembly Sequence (1/2):

Part Identification:



Installation Instructions

HOT AISLE CONTAINMENT

End Fascia Assembly Sequence (2/2):

22. Install end fascia assembly with End row of bracket using 3/8"-16UNC screw.

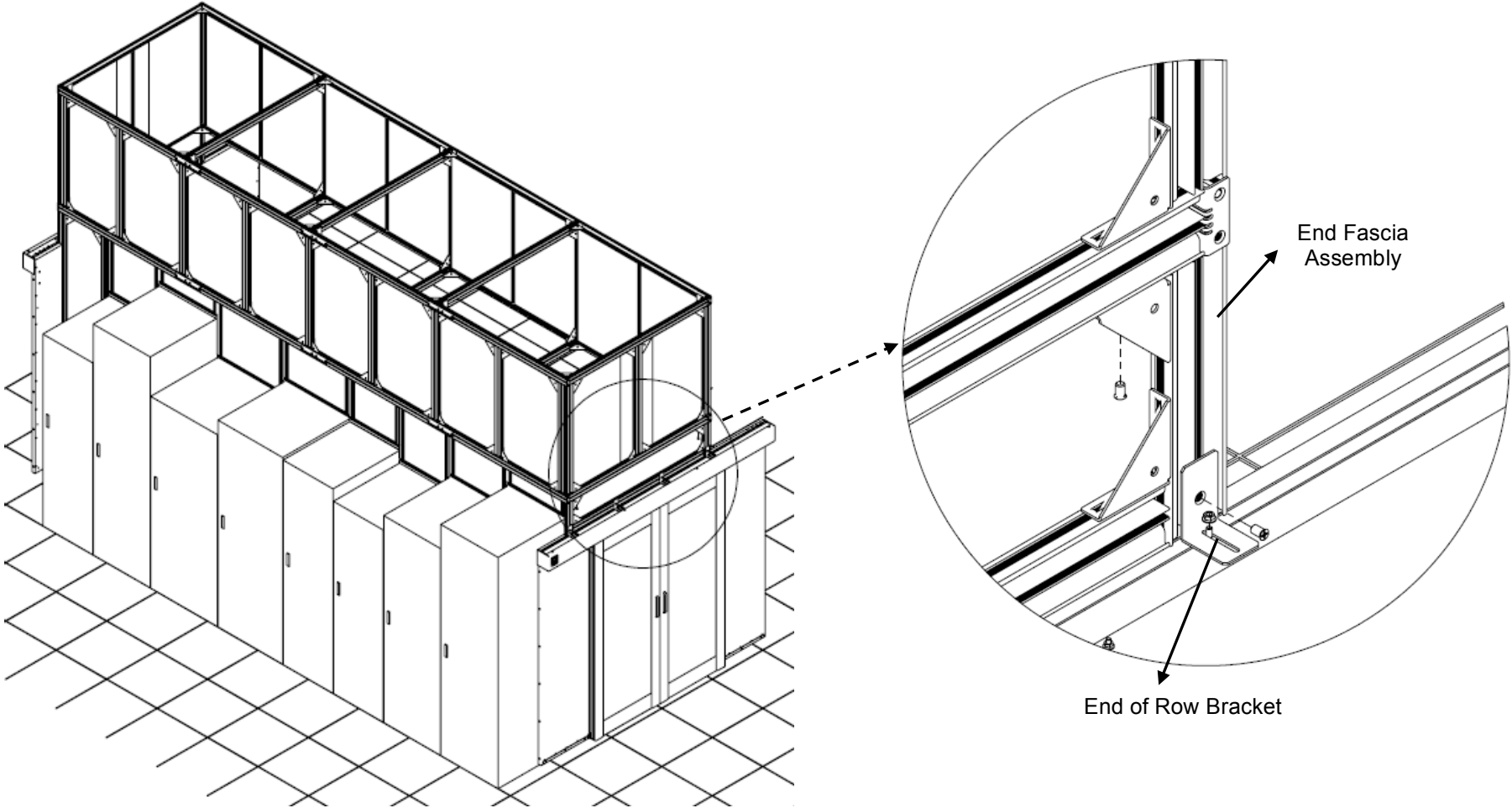


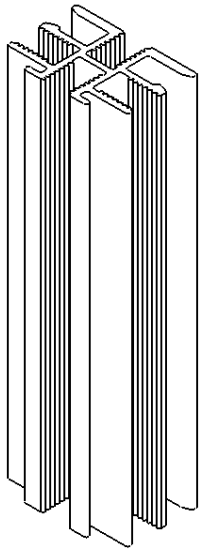
Fig. 20

Installation Instructions

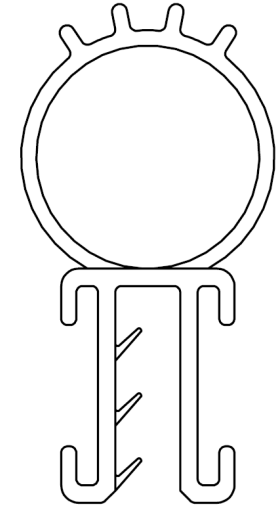
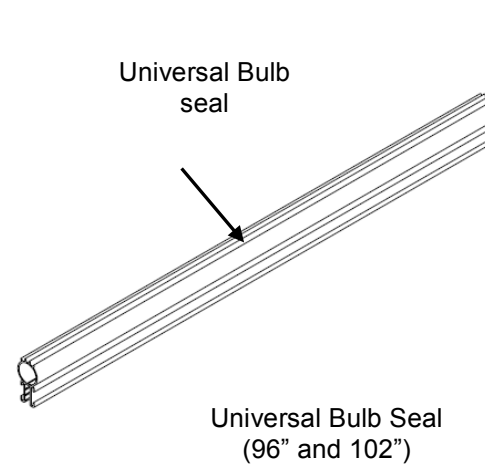
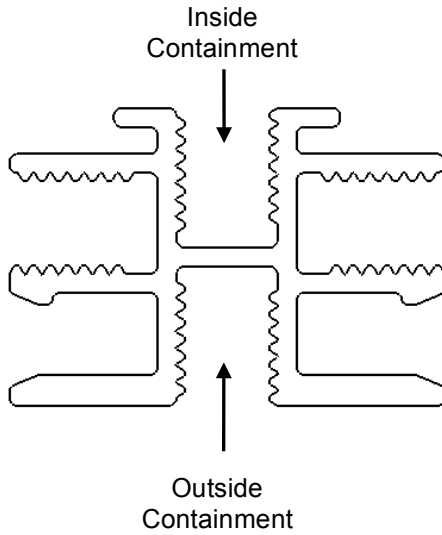
HOT AISLE CONTAINMENT

Filler Panel Assembly Sequence(1/3):

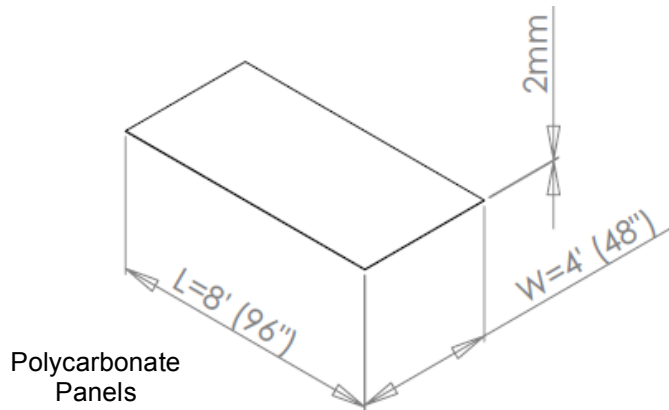
Part Identification :



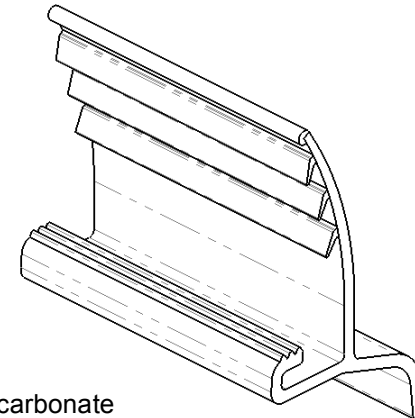
Filler panel full height
Extrusion (94" & 102")



Cross sectional
View of Universal
Bulb seal



Polycarbonate
Panels



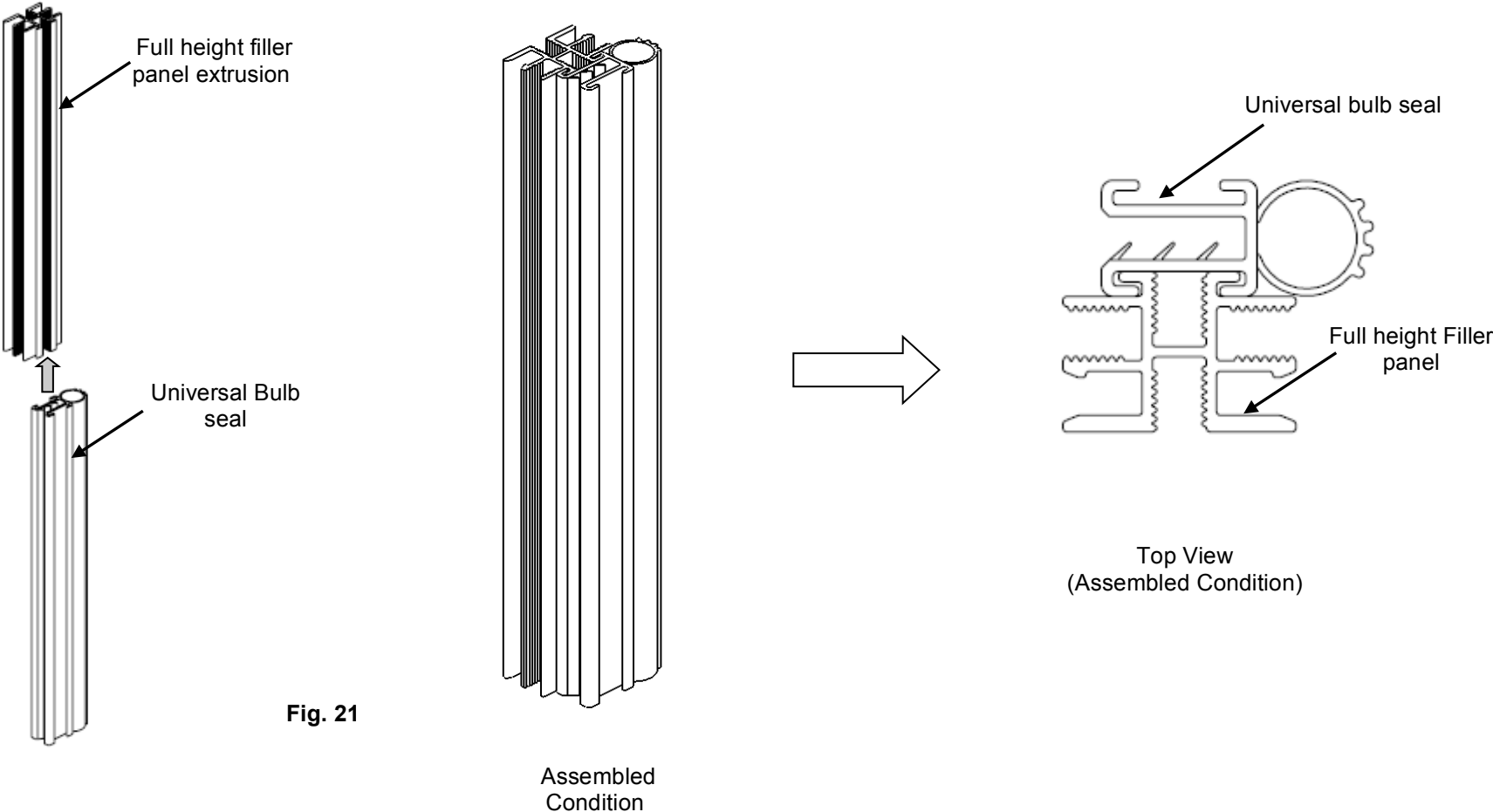
Polycarbonate
Clip

Installation Instructions

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Filler Panel Assembly Sequence(2/3):

22. Sliding the Universal bulb seal onto Filler panel extrusion (Fig.21).



Installation Instructions

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Filler Panel Assembly Sequence(2/3):

23. Insert Polycarbonate sheet into the bulb seal (fig. 22).
24. Similarly assemble the extrusion and seal on other side (fig. 23).

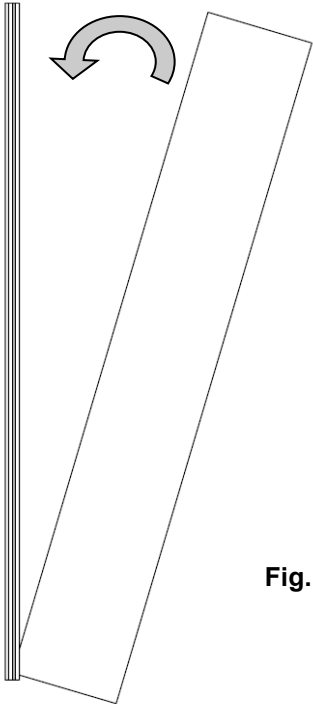


Fig. 22

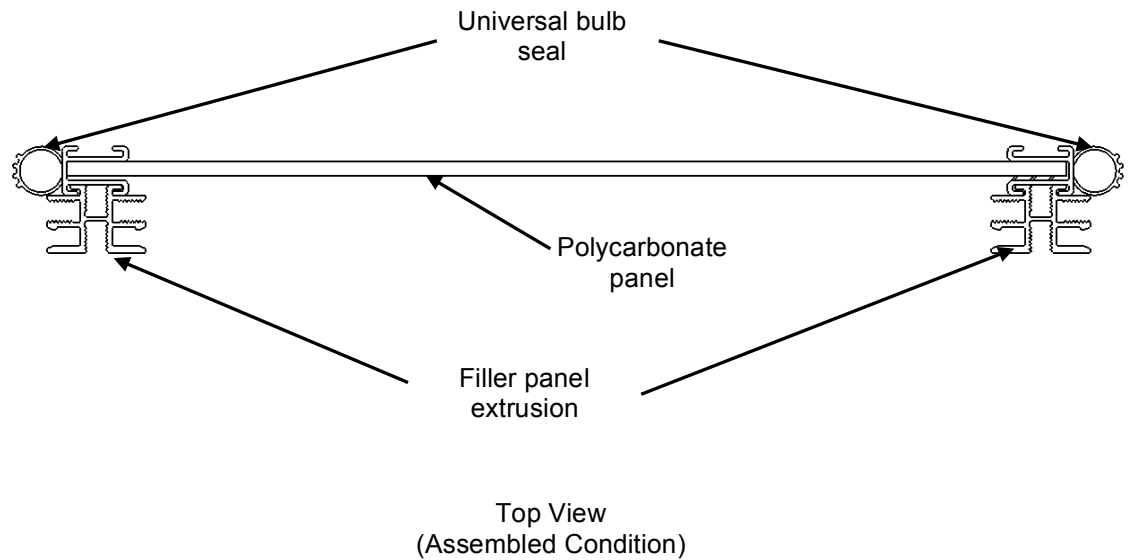
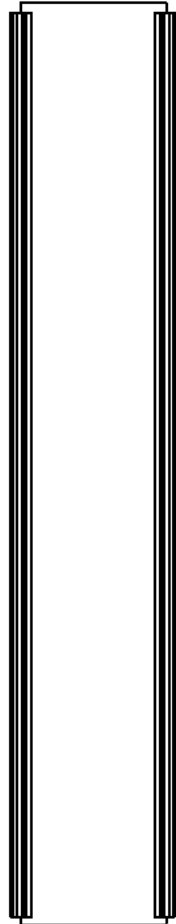
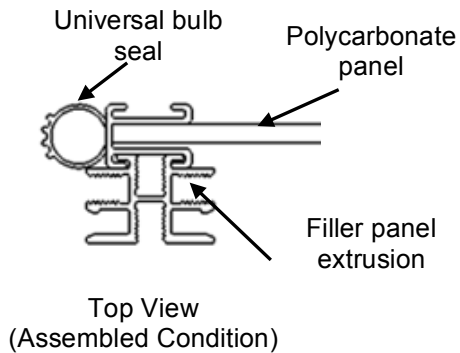


Fig. 23

Installation Instructions

HOT AISLE CONTAINMENT

Filler Panel Assembly Sequence(2/3):

25. Install filler panel into HAC extrusion using Gusset and 3/8"-16UNC screw (Fig.24).

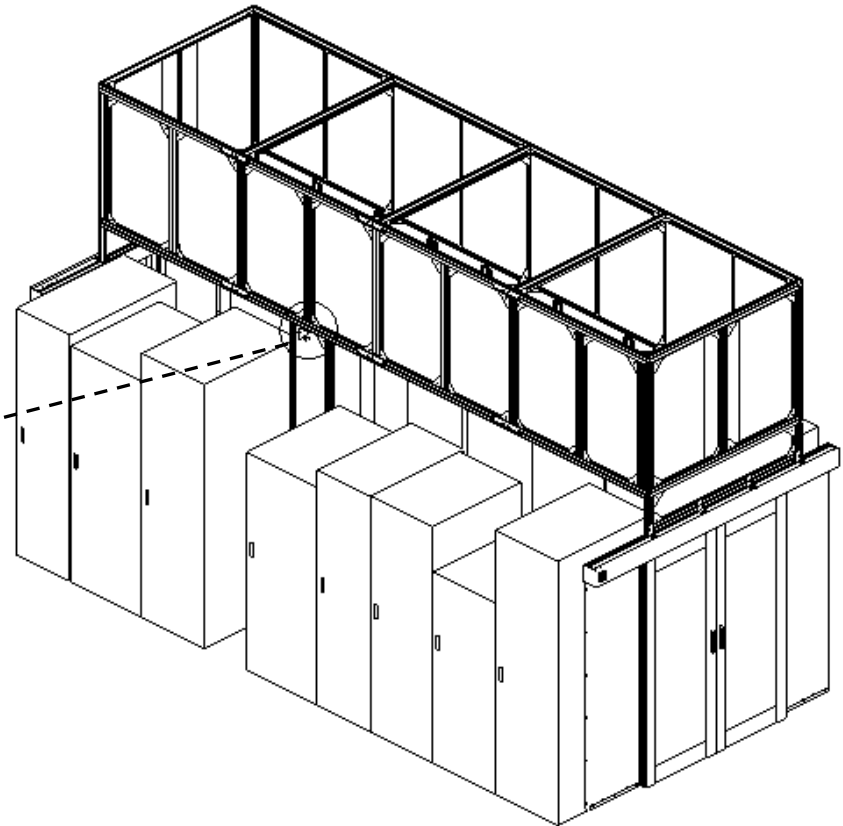
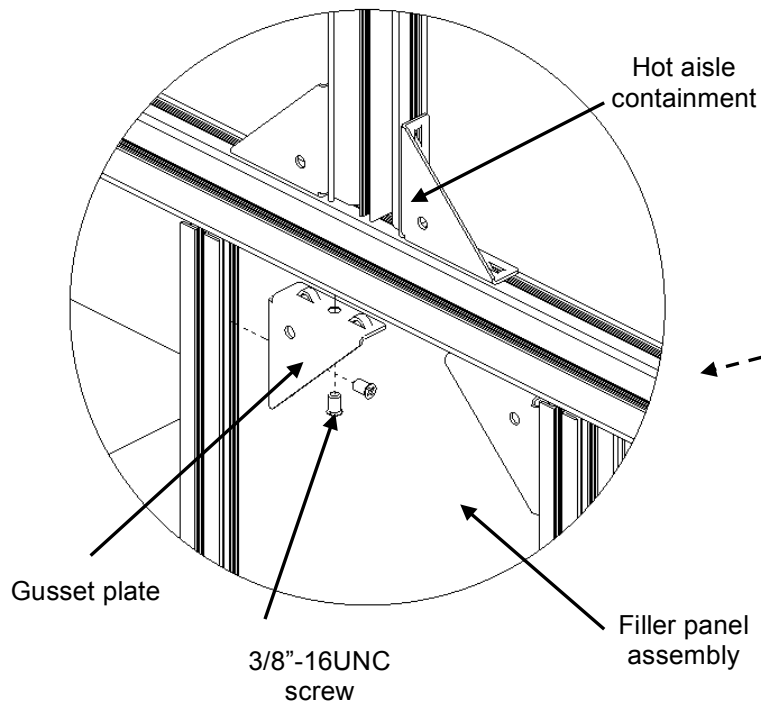


Fig. 24