Data Center Modular Partition

Assembly and Installation Instructions

DO NOT REMOVE PARTITION SYSTEM FROM THE PACKAGING UNTIL YOU READ THESE INSTRUCTION IN THEIR ENTIRETY.

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Armstrong®
World Industries

1. SYSTEM OVERVIEW

Modular Partition System is designed to offer an easy-to-install partition system with multiple panel options. This system will integrate seamlessly with Armstrongs DynaMax® structural suspension system.

NOTE: This system needs to be attached to a structural ceiling.

1.1 Tools Required

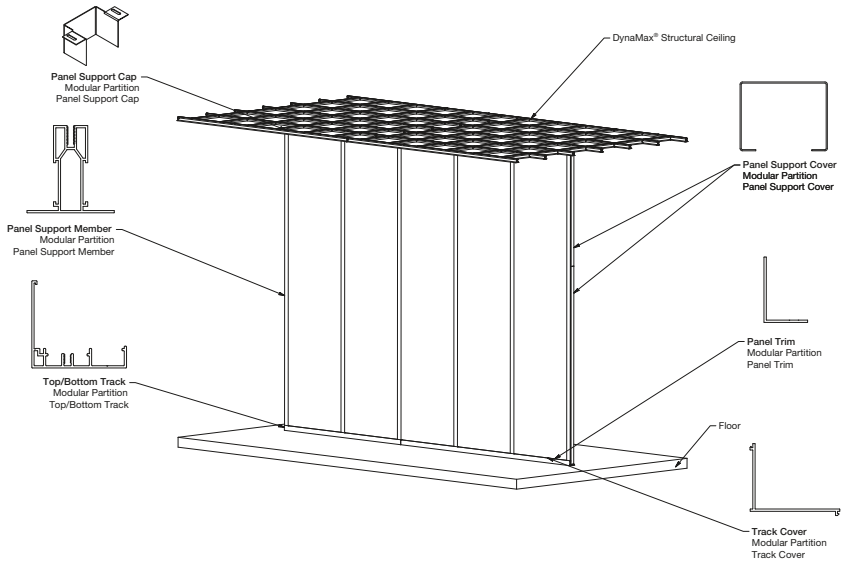
Here is a list of the most common tools needed for installing the Modular Partition.

Required tools and materials may vary based on job-specific conditions.

- PPE: Cut-resistant gloves, safety glasses, hard hat, steel-toe boots
- Ladder(s), rolling scaffold
- Lasers: vertical alignment
- Tape measure
- Carpenter pencil
- Hammer/rubber mallet
- Utility knife
- Tool belt
- Fasteners: Top and Bottom track attachment
- Cordless drill with screw tips and drill bits
- Socket set
- Chop saw
- Hand shear

1.2 Components Overview

The diagram **(Fig 1)** provides an overview of the Modular Partition system components, and accessories. The system is capable of handling a variety of panels with thickness ranging from 6mm-25mm. Some examples would be polycarbonates and metal mesh.



(Fig 1)

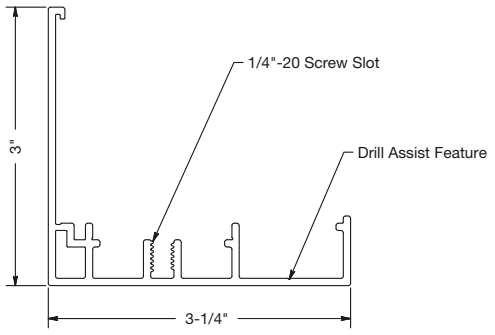
2. INSTALLATION CONSIDERATIONS

The Modular Partition system is designed to be attached from floor to structural ceiling to segment off a room or section of a data center.

2.1 Layout

Layout the space, marking the locations of your attachment points on the top and bottom track. Drill clearance holes every 48” for the appropriate fasteners that will be used to secure the ceiling and floor track.

NOTE: The Top/Bottom track **(Fig 2)** has a score line to help locate clearance hole.

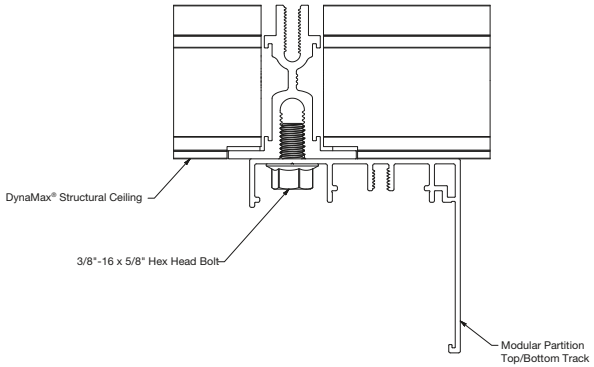


(Fig 2)

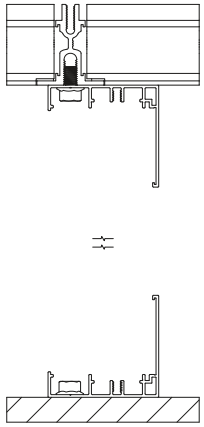
2.2 Top/Bottom Track Installation

Lift the top track into position and fasten using the appropriate hardware **(Fig 3)**.

NOTE: For Armstrong Structural Ceilings use a 3/8"-16 × 5/8" bolt. Bolts should be fully seated but not over-torqued, in order to avoid damage to the threaded channel. Continue installing the remaining required pieces of top track until the end of the run, cutting the last piece of top track to fit as needed. Position the bottom track directly below the top track ensuring the front faces align **(Fig 4)**. Secure the bottom track using the appropriate hardware for the floor type the system is being installed on. Continue installing the bottom track along the run, cutting the last piece of bottom track as needed.



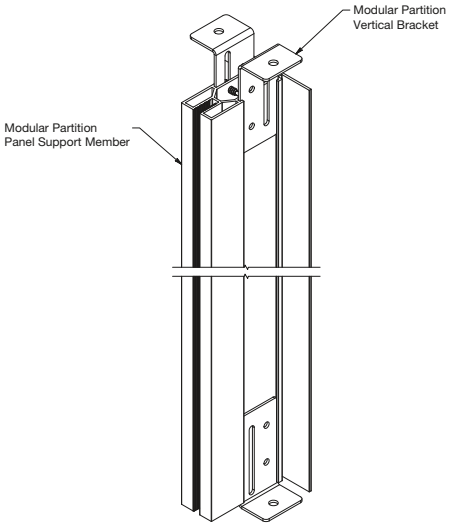
(Fig 3)



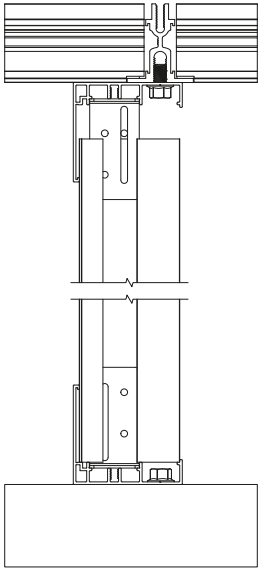
(Fig 4)

3. PANEL SUPPORT MEMBER INSTALLATION

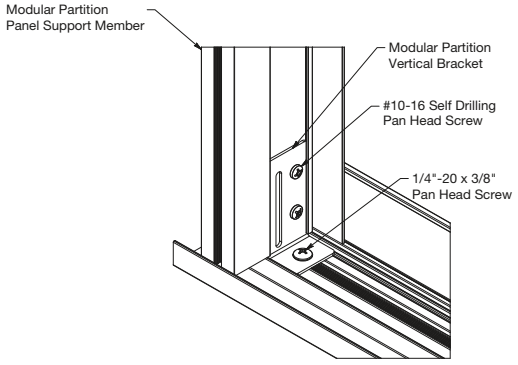
Preinstall the longer leg of the vertical brackets into the top and bottom of each panel support member **(Fig 5)**. Starting at one end of the run, install the first panel support member flush with the end of the top and bottom track **(Fig 6A)**. The bottom vertical brackets get fastened into place **(Fig 6B)**, The top bracket gets secured by a screw into the top of the slot in the vertical bracket **(Fig 6C)**. The top vertical brackets are then lifted into place and secured to the top track **(Fig 6D)** This is to allow for vertical float in the system. Vertical float is needed for any variance in the ceiling after the partition is constructed.



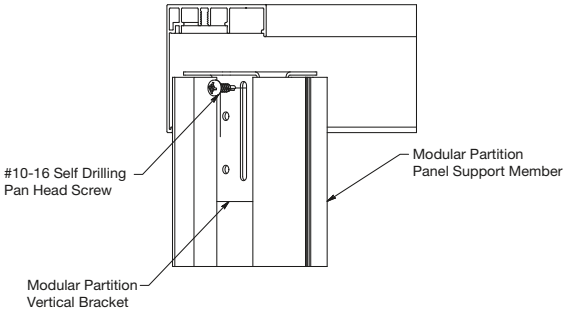
(Fig 5)



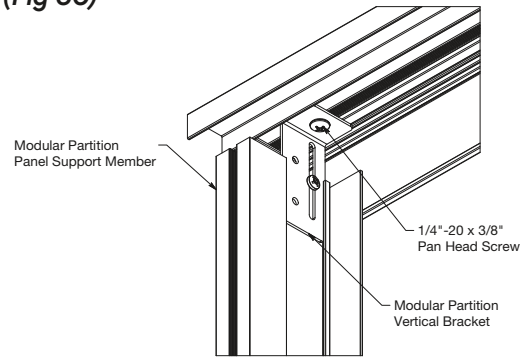
(Fig 6A)



(Fig 6B)



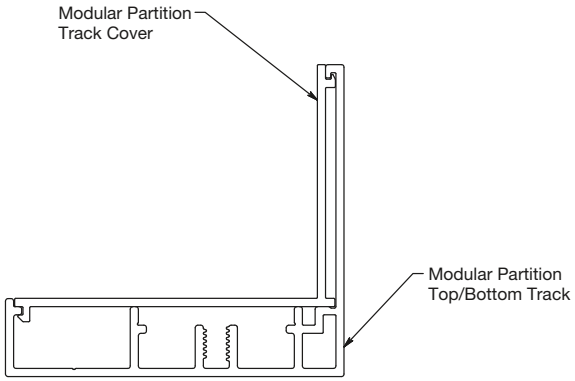
(Fig 6C)



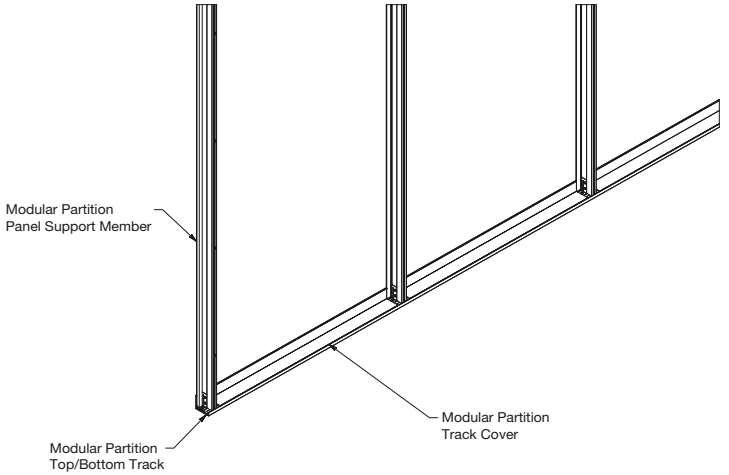
(Fig 6D)

3.1 Track Cover

Space the subsequent panel support members at 48" O.C. The track cover can be used to assist in spacing. The track cover is simply press fit into both the top and bottom track **(Fig 7A & B)**. Continue down the run installing the next panel support member and track cover until the run is complete. Cut the last track cover as needed.



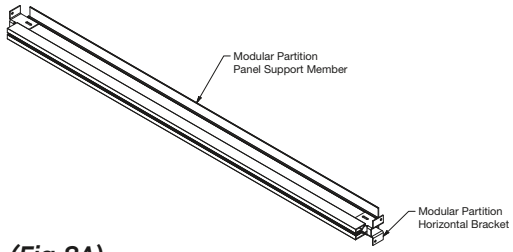
(Fig 7A)



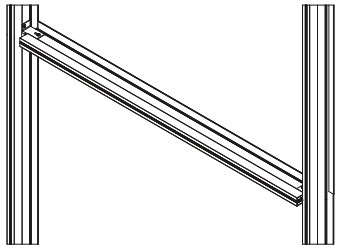
(Fig 7B)

4. HORIZONTALS (OPTIONAL)

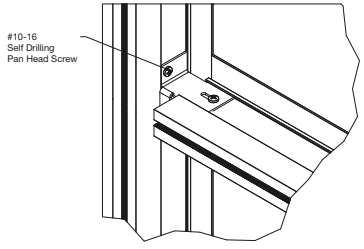
In the case of a horizontal being added to the partition system a panel support member is used in conjunction with the horizontal bracket **(Fig 8A)**. Attach the horizontal panel support member to the vertical panel support members using the horizontal bracket **(Fig 8B & C)**.



(Fig 8A)



(Fig 8B)



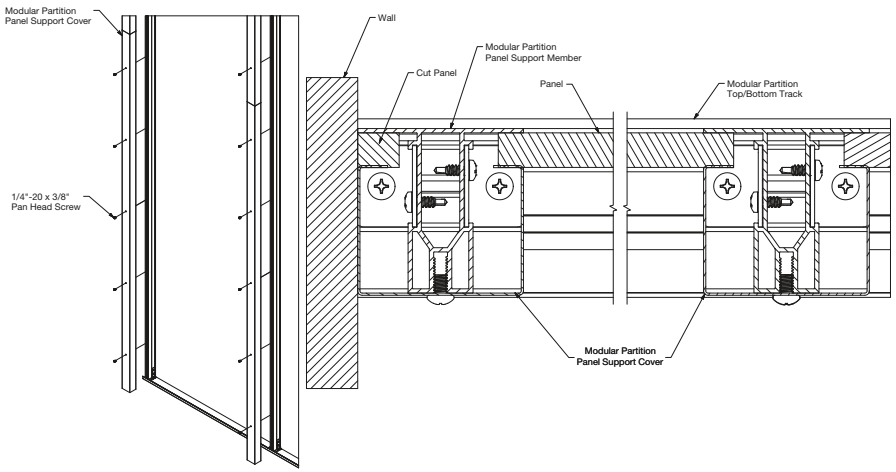
(Fig 8C)

5. PANEL INSTALLATION

Cut the panels using standard procedures for the products specified. At the wall, small filler pieces will need to be cut to fill in the gap between the panel support member and the panel support cap. Lay in the next panel and secure in place with the panel support cover **(Fig 9A & B)**. The panel support covers are secured with the provided 1/4"-20 screws. Screws should be fully seated but not over-torqued, in order to avoid damage to the threaded channel. Continue down the run until all panels and panel support covers are installed. Cut the last panel to fit as needed.

NOTE: Panel support cover legs can vary in size depending on panel thickness.

OPTIONAL: For horizontal panels the panel support covers are installed in the same operation as the vertical post covers

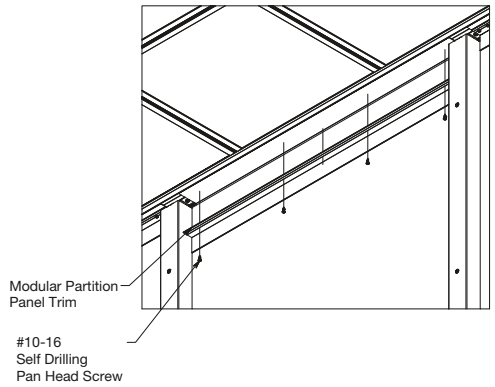


(Fig 9A) *(Fig 9B)*

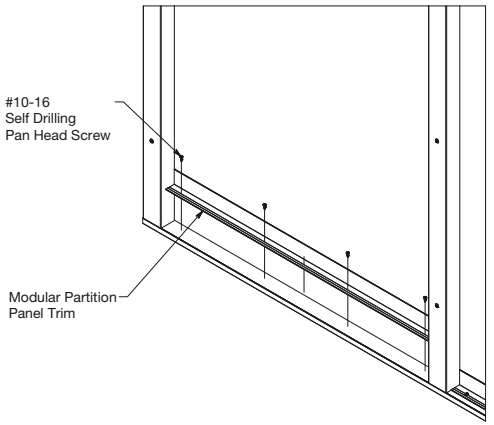
5.1 Panel Trim

Fasten the panel trim at both the top and bottom as seen in **(Fig 10A & B)**. Screws should be installed 6" from each vertical and every 12" from there. Continue this process down the run until all panel trim are installed. Cut the last panel trim to fit as needed.

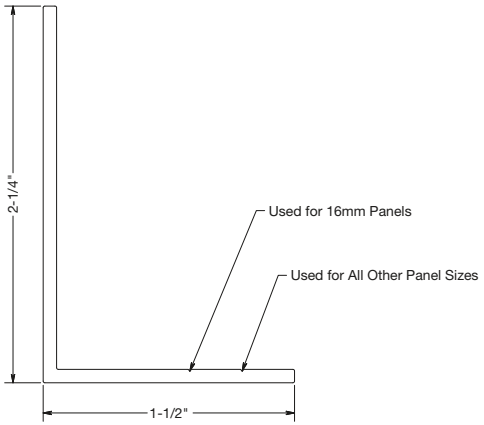
NOTE: The panel trim has two (2) score lines to help locate the self-drilling screws **(Fig 11)**



(Fig 10A)



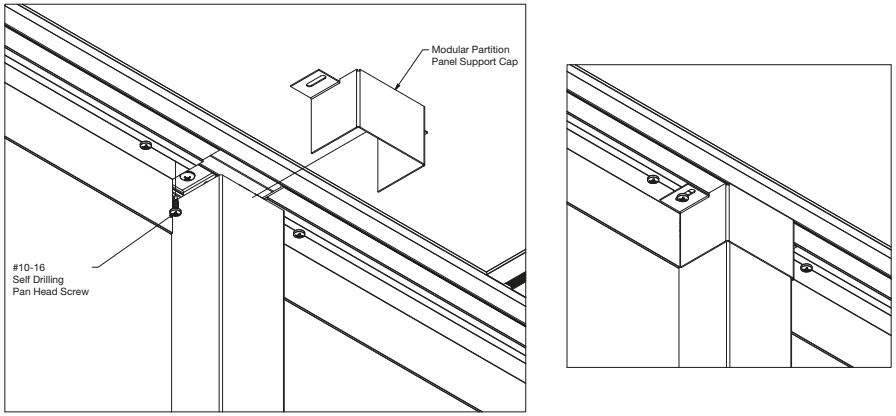
(Fig 10B)



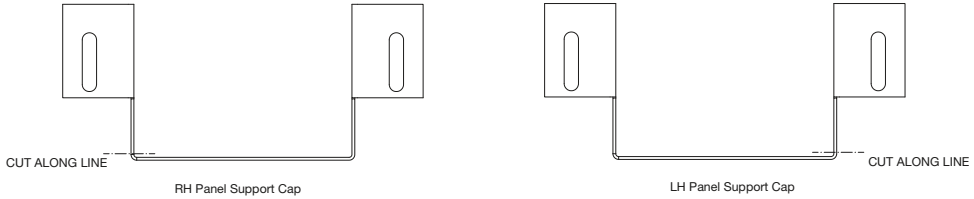
(Fig 11)

6. PANEL SUPPORT CAP INSTALLATION

Install the panel support cap over the panel trim. Secure the panel support cap in place using a #10 self-drilling screw **(Fig 12)**. Continue down the run until all panel support caps are installed. The panel support cap needs to be trimmed at the wall conditions. Trim the outer leg of the panel support cap as shown **(Fig 13)**.



(Fig 12)



(Fig 13)

7. FINAL DETAILING

Clean exposed surfaces as required. Aluminum components may be wiped down with rubbing alcohol or a mild soap solution to remove fingerprints, oil, etc. Avoid using rubbing alcohol on any plastic components as it may cause damage.

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 877 276-7876.
For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 877 276-7876.

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