

INTERNAL ONLY

Issue: How to Install a Duct System in an EcoAisle.

Product line: EcoAisle

Environment: All

Cause: Install

Resolution:

Duct System Installation

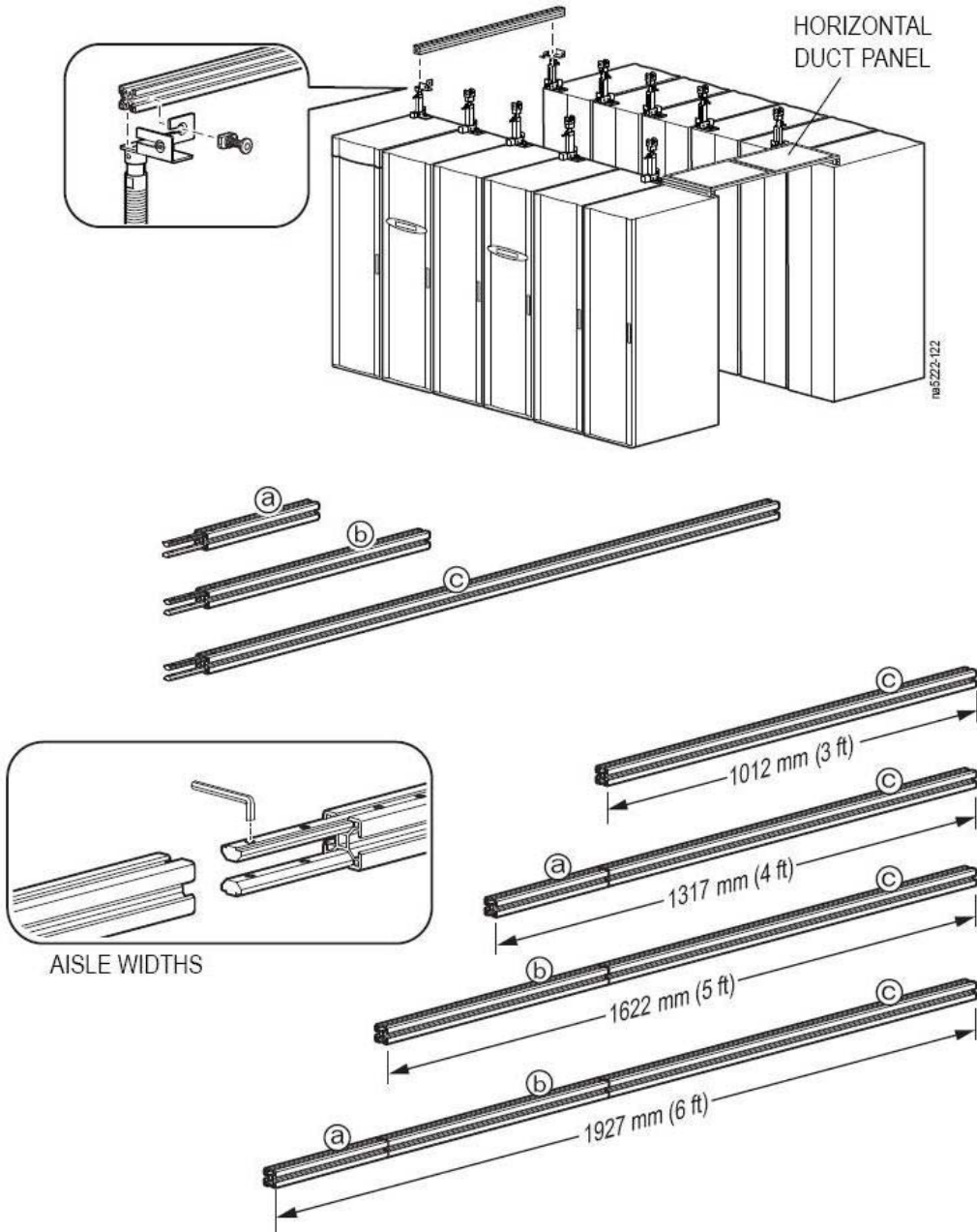
IMPORTANT: Install support brackets before proceeding with the remainder of this installation.

Refer to [“Support Bracket Installation” on page 38 for instructions on how to install the support brackets.](#)

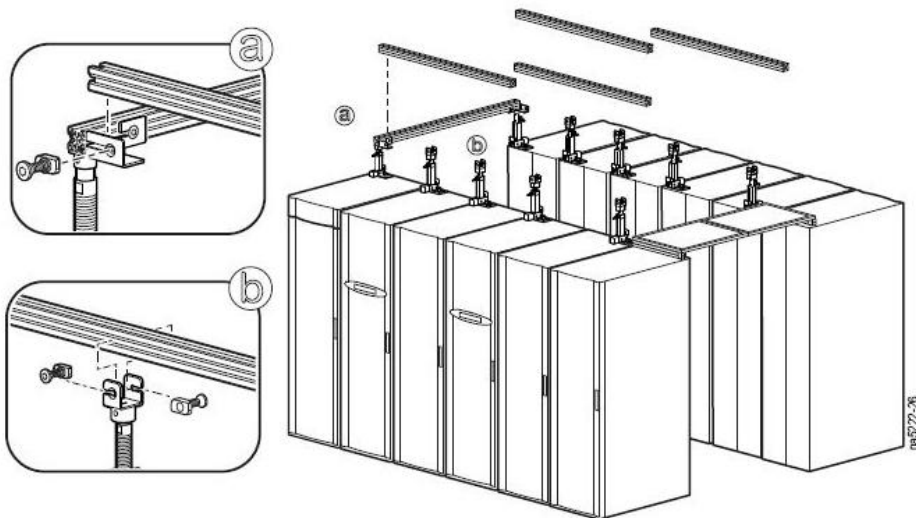
Rail supports

1. Install the cross aisle supports— ACDC2300, ACDC2301.

NOTE: If horizontal panels have been installed start at the opposite end of the row.



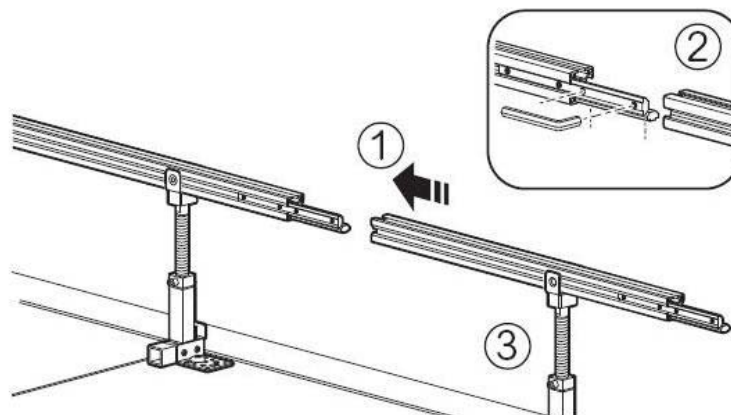
2. Attach the side support rails to the mounting brackets.



3. Continue to install the side support rails connecting them together as show. Shorter side rail support pieces from additional kits may need to be installed to complete this step.

Length calculation: Overall rail length = length of row – 60mm

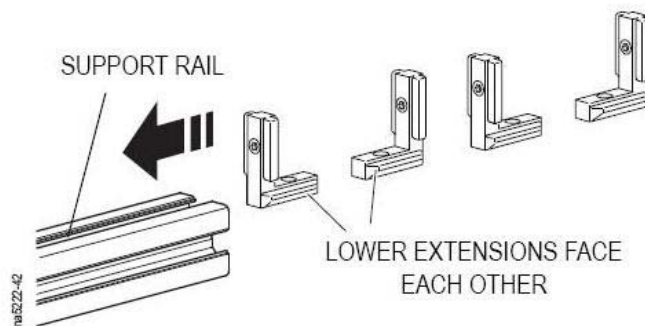
NOTE: A gap may need to be left for wire routing for lighting.



Duct panels and cross-bracing

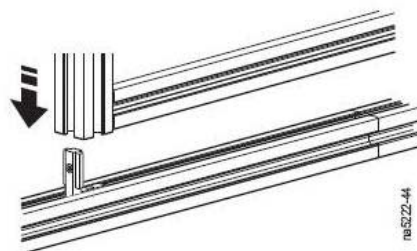
NOTE: It is important to install the duct panels in the proper order.

1. Insert the angle brackets, removed from the duct panels, into the end and side support rails. A set of two angle brackets are used per panel.
NOTE: Position each set of angle brackets so the lower extensions face each other.
2. Following the order of installation shown in the illustration, start at one the end of the aisle and install the duct panels working towards the opposite end of the aisle.

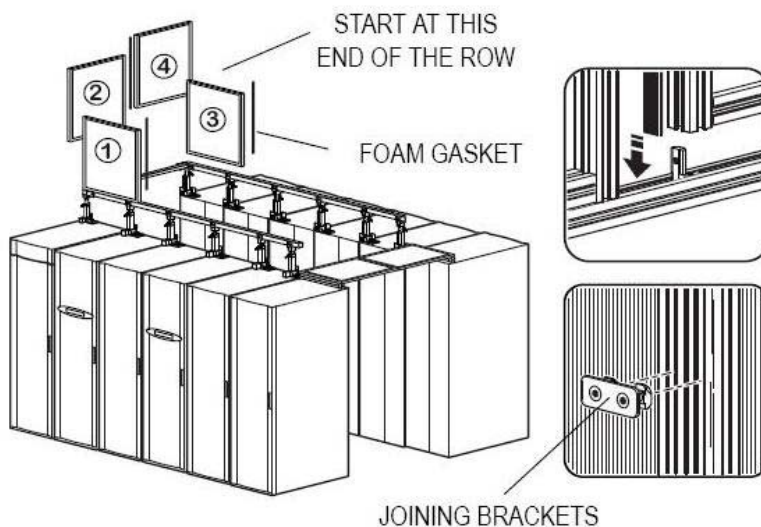


NOTE: If cross-aisle horizontal panels have been installed start at the opposite end.

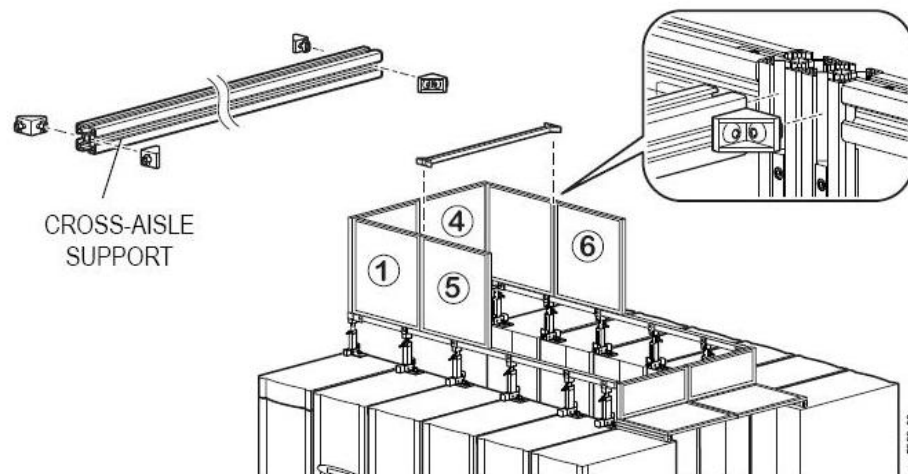
- a. Place the duct panels onto each set of angle brackets.
- b. Between each panel install the black foam gasket (provided with each panel).



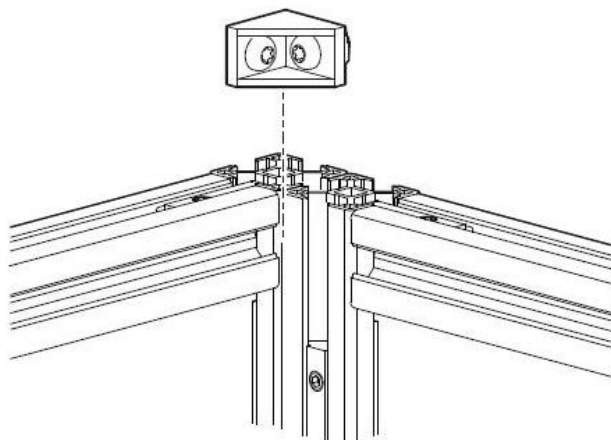
3. Connect each panel together using the supplied joining brackets.



4. As each pair of duct panels are installed attach a cross-aisle support. Do this for each pair down the entire length of the row.



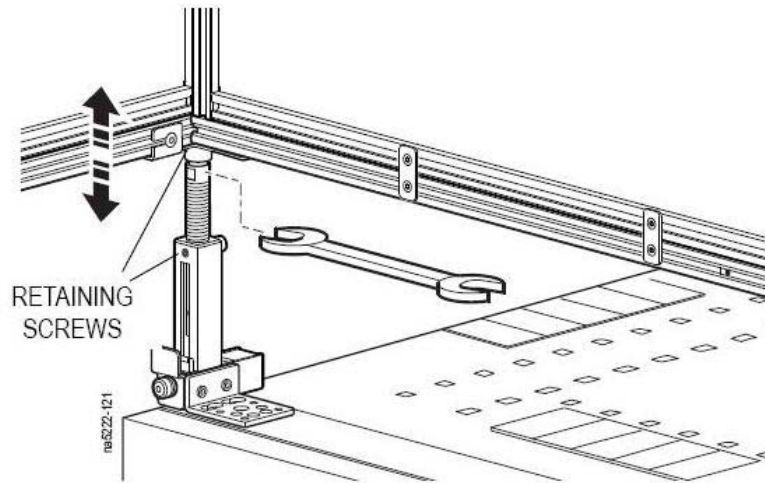
5. In certain configurations access to install the outer joining brackets the outer corner of the duct may not be possible. Instead, install the provided corner brackets on the inside of the corner of the duct



Adjust the height of the duct assembly

IMPORTANT: Before proceeding with these instructions the final height adjustments must be made the duct assembly.

1. Loosen the retaining screws on the adjustable mounting brackets.
2. Using a 14 mm wrench adjust the height of the duct assembly positioning it at its desired height. Making sure the entire duct assembly is level and plumb.



3. Tighten all retaining screws.

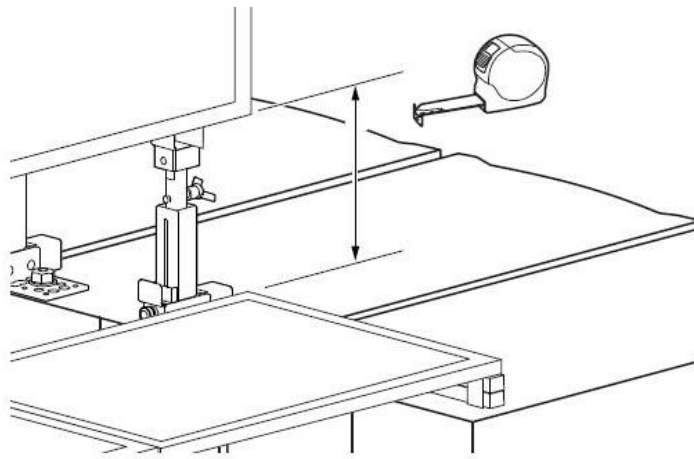
End-of-aisle air block panel—ACDC2303 and ACDC2304

IMPORTANT: Do not perform this step until you have completed the final adjustments to the duct assembly.

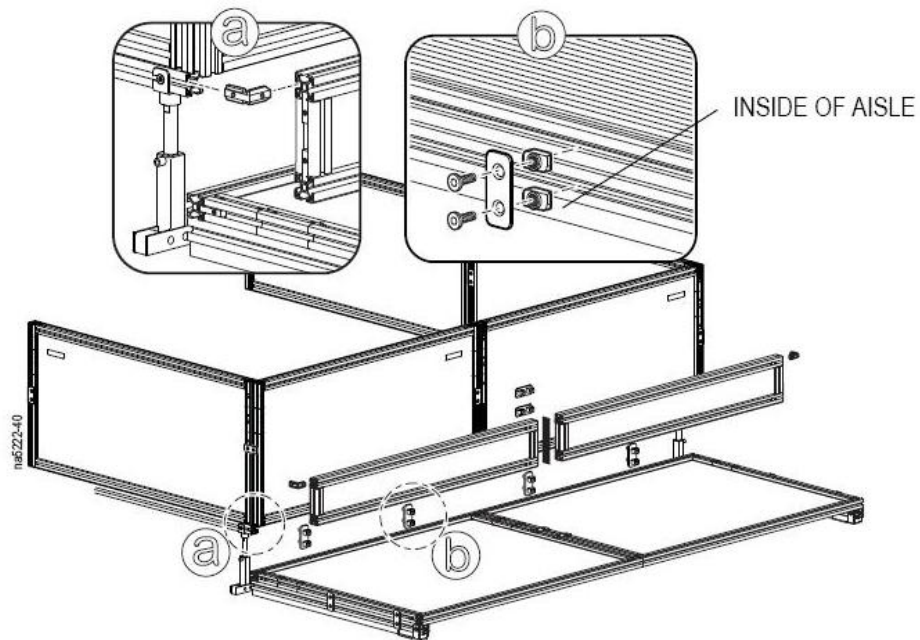
Standard aisle widths measurement calculations for air block panels

Aisle Width	Duct Width	Cut ACDC2303/ACDC2304 to		Number of Panels
		Width	Height	
3 ft/915mm	1072mm/42 in.	N/A	504mm - gap	1
4 ft/1219mm	1377mm/54 in.	688.5mm	504mm - gap	2
5 ft/ 1524mm	1682mm/66 in.	841mm	504mm - gap	2
6 ft/ 1829mm	1987mm/78 in.	993.5mm	504mm - gap	2

1. Measure the distance between the bottom of the vertical duct panels and the top of the horizontal panel.

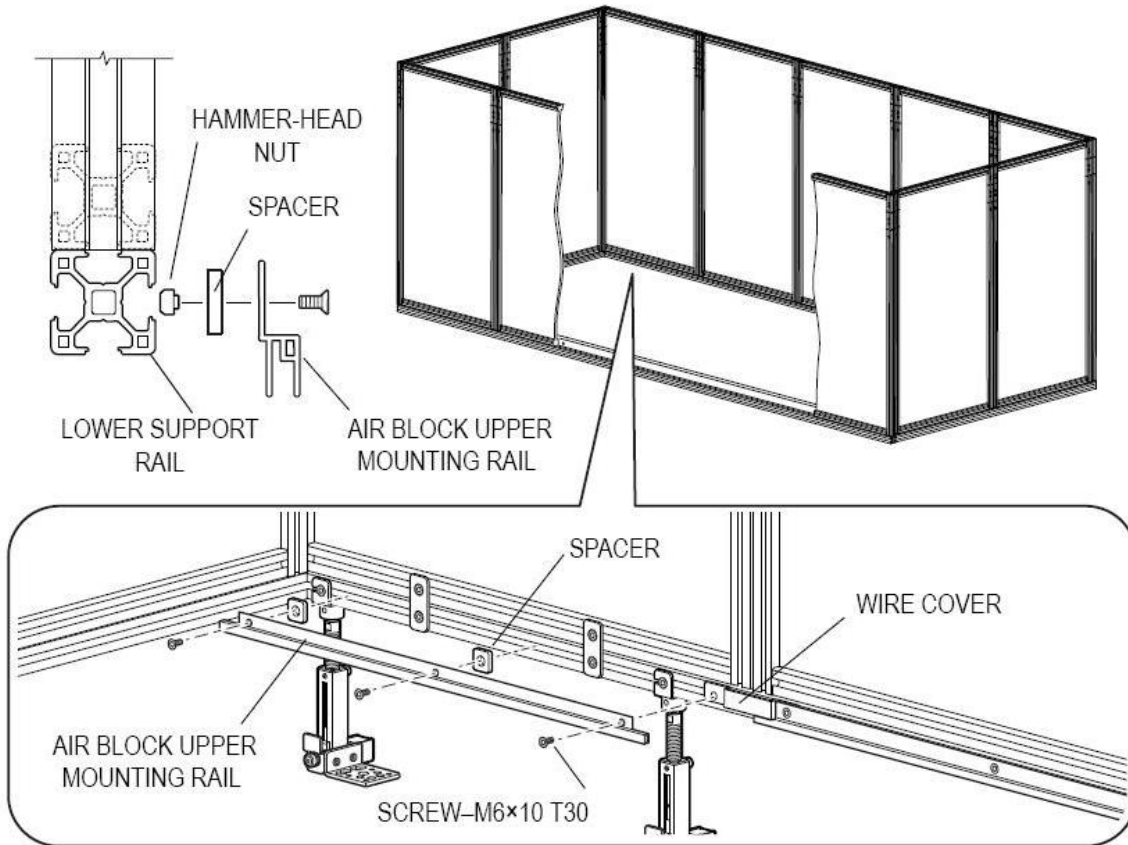


2. Adjust the size of the panels.
3. Insert duct corner brackets (a) into the air block panel and the duct panel mounting rail.
4. Attach the air block panels to the horizontal duct panels with joining brackets and channel nuts (b).



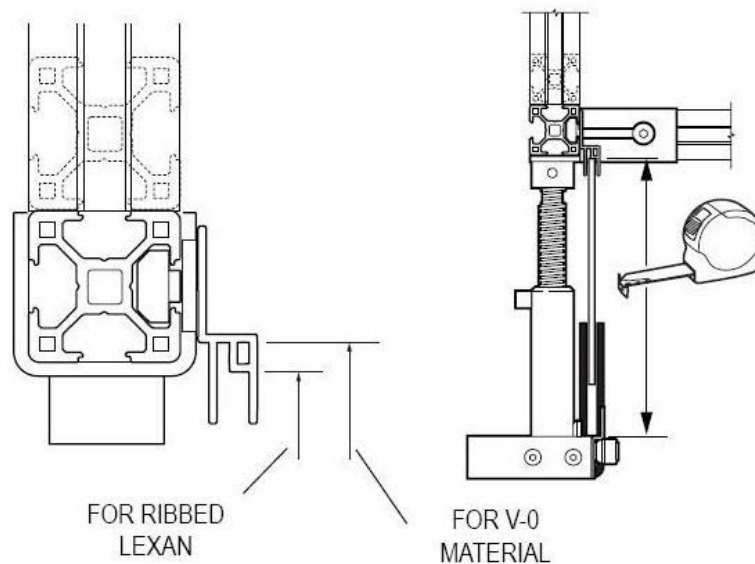
Side air block panels

1. Install the upper air block mounting rails and wire covers (if necessary) onto the lower support rails.



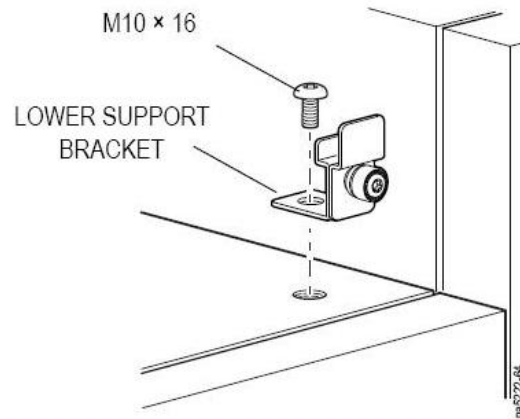
2. Measure the distance between the upper and lower air block mounting rails. Cut the air block to fit the opening.

IMPORTANT: Take into consideration the differences in channel sizes for the type of air block material used.



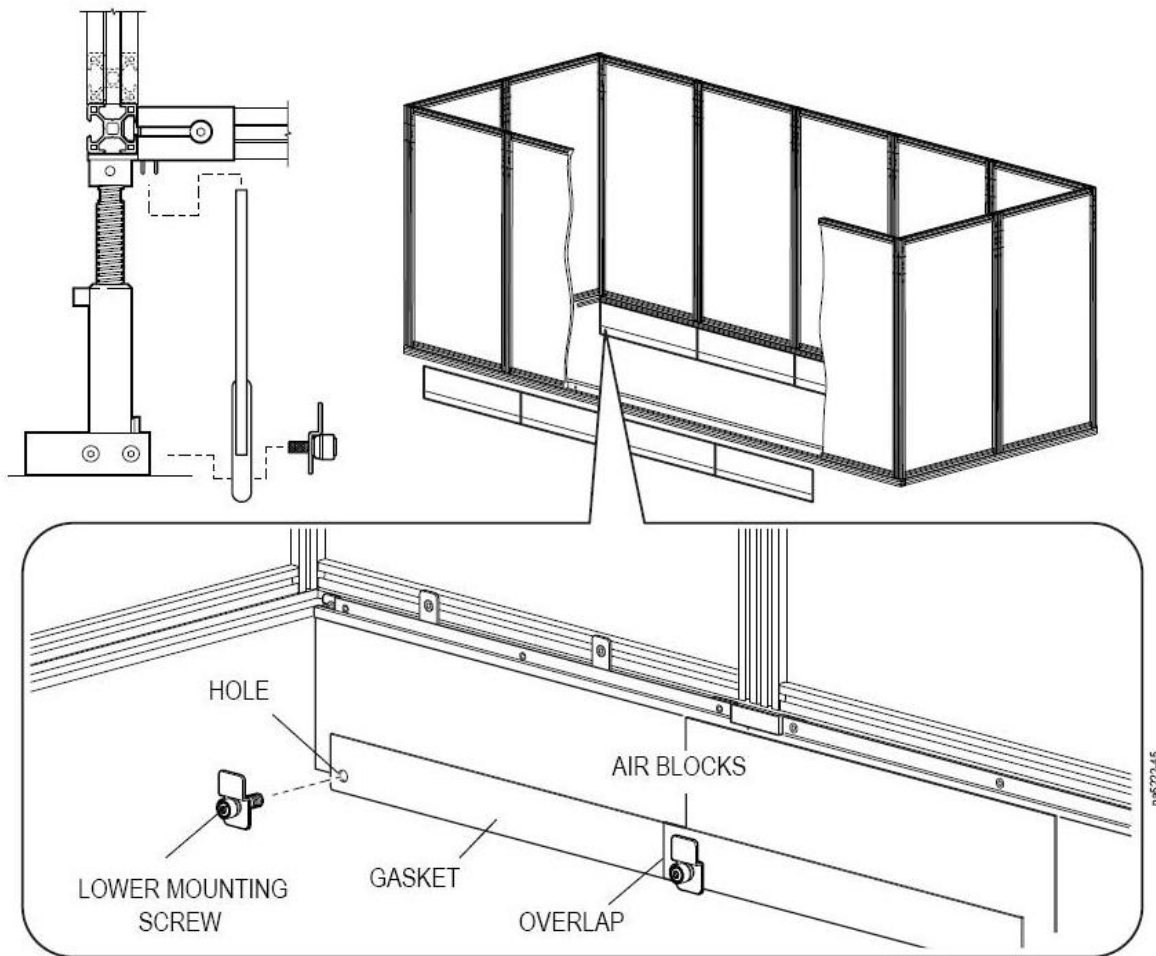
3. Install the lower support brackets (if applicable).

NOTE: This bracket is used to help support the lower end of an air block where enclosures of two different heights meet. Reference ACDC2200–ACDC2203



4. Install the air blocks.

NOTE: Create a hole in the gasket to allow the lower mounting screw to pass through.



5. Continue to install the side air blocks down the entire length of the row.

NOTE: The gasket is offset to allow overlapping of the adjacent panel.

