

Duct System for a Server or Switch Cabinet Mounted Cisco 9506 (CNLTD72A3)

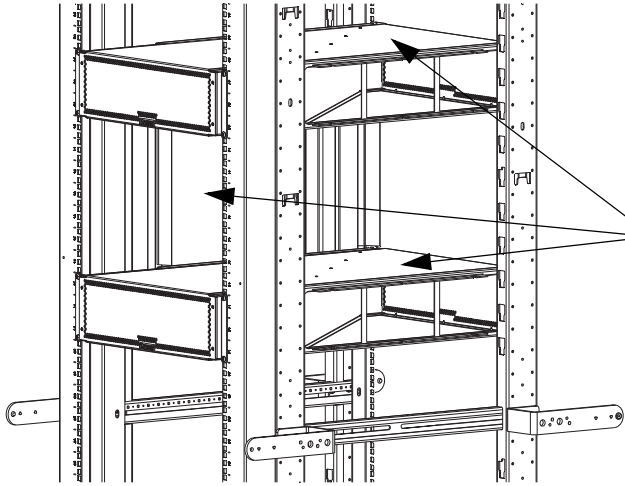


© Panduit Corp. 2012

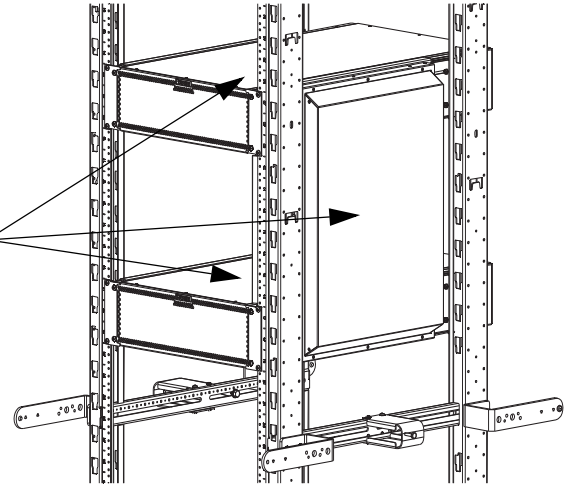
INSTALLATION INSTRUCTIONS

CM546B

Front of Cabinet
(Cold Aisle)



Front of Cabinet
(Cold Aisle)



9506 Duct
(Installed in Server or
Switch Cabinet)

Server Cabinet Application

Rear of Cabinet
(Hot Aisle)

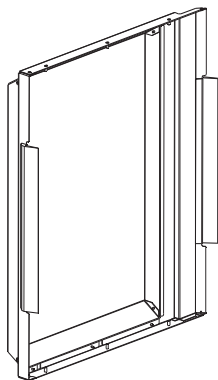
Switch Cabinet Application

Rear of Cabinet
(Hot Aisle)

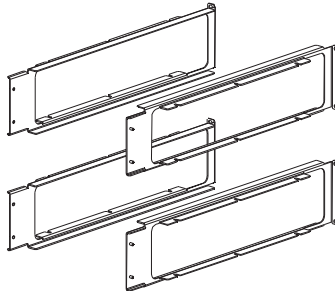
Device Ports Facing Hot Aisle

Device Ports Facing Cold Aisle

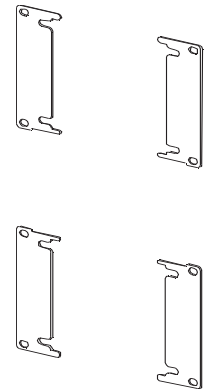
Component Guide



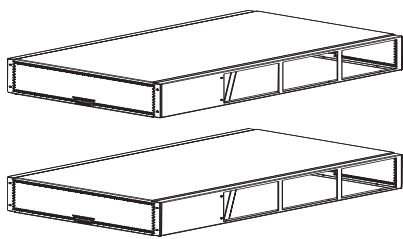
**Ducting
Assembly**



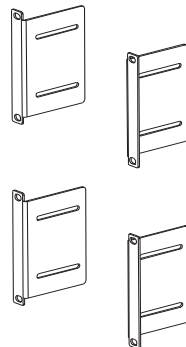
**Side
Brackets**



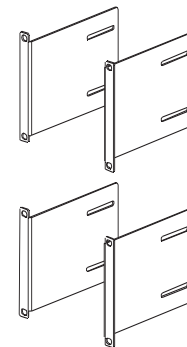
Seal Plates



Duct Boxes



**Adjustment Brackets
(Switch Application)**



**Adjustment Brackets
(Server Application)**

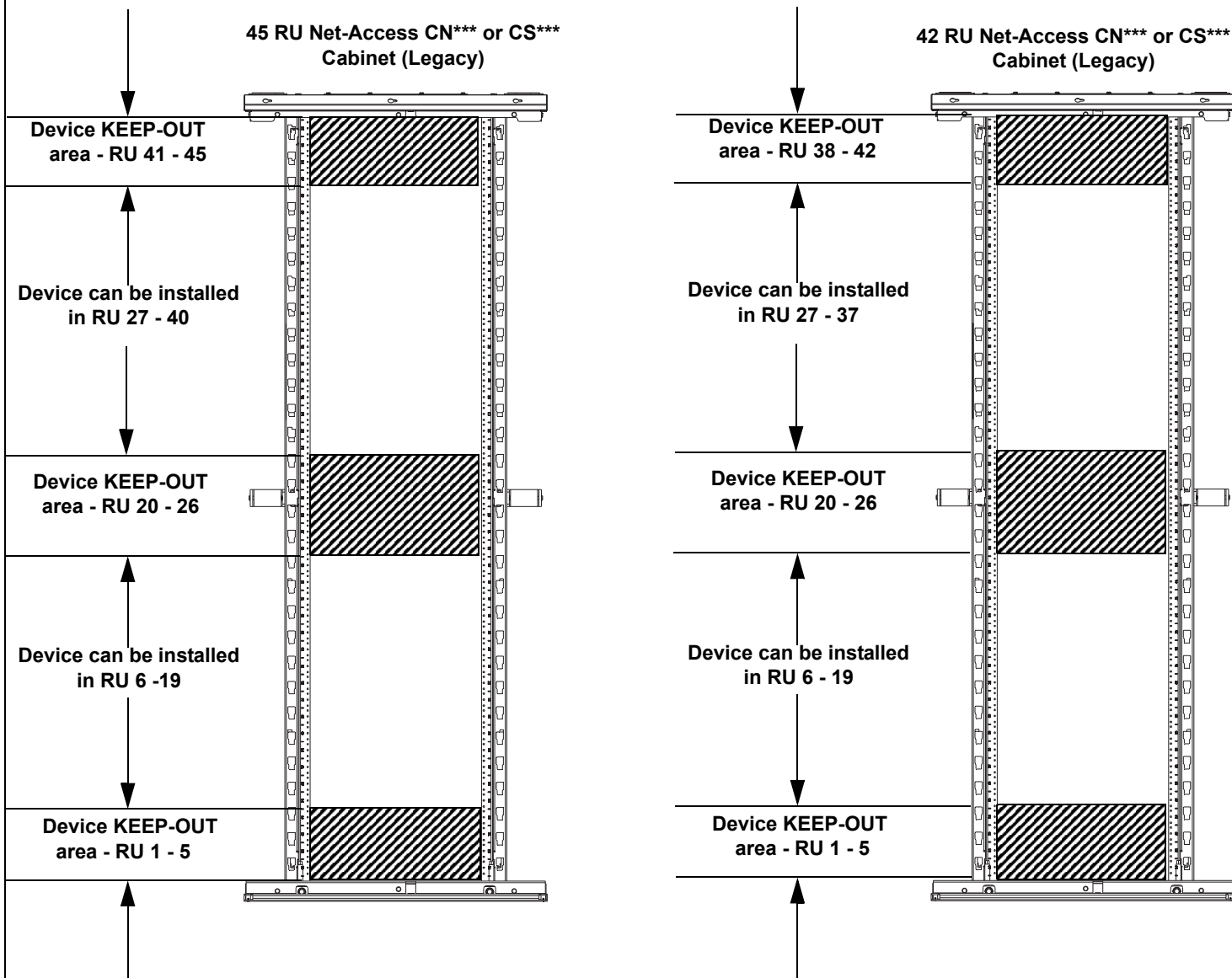
For Technical Support: www.panduit.com/resources/install_maintain.asp

Table of Contents – 9506 Ducting

	PAGE
Section 1 – Device Placement	
Device Placement.....	3
 Section 2 – SERVER APPLICATION	
Determine Location of 9506 Duct.....	4
Cage Nut Installation.....	5
Left and Right Hand Bracket Installation.....	6
Ducting Installation.....	7
Duct Box Installation.....	8
 Section 3 – SWITCH APPLICATION	
Page	
Determine Location of 9506 Duct.....	9
Left and Right Hand Bracket Installation.....	10
Ducting Installation.....	11
Duct Box Installation.....	12
 Section 4 - Day Two Installation	
Net-Access Cabinet Installation.....	13
Net-Serve Cabinet Installation.....	14

Device Placement

- Due to physical constraints posed by the front-to-back beams on the legacy Net-Access cabinet, there are certain areas of the cabinet that the device cannot be mounted when used in conjunction with this inlet duct.
- For new Net-Access switch cabinets (N***), there are no device keep-out areas. The only restriction on device is that 3 RU must be left open above and below the switch.
- **NOTE: Numbers-up RU numbering (#1 at bottom) assumed.**

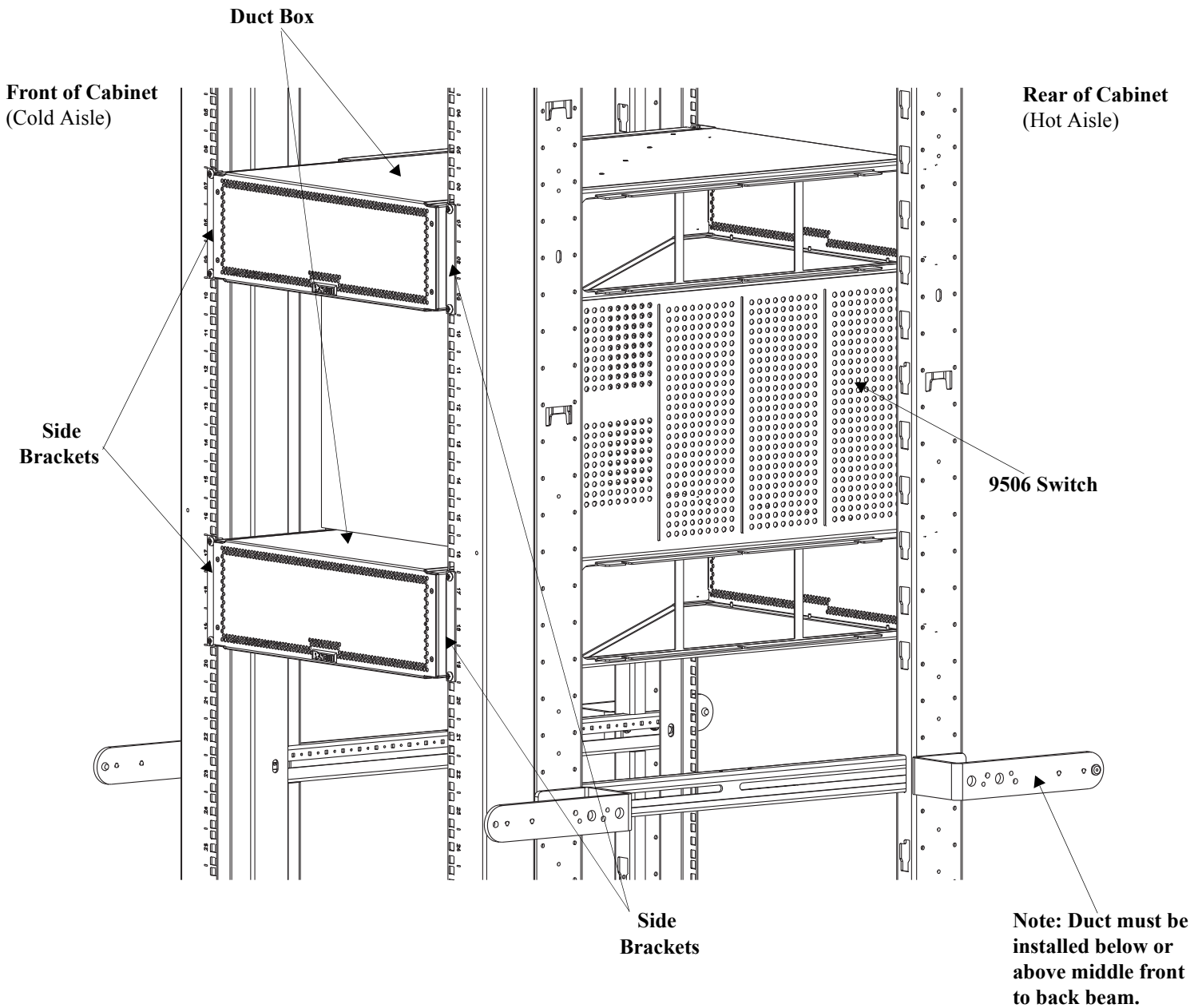


SECTION 1-Server Cabinet Application - Ports Facing Hot Aisle (Cabinet part numbers CS*** or S***)

Determine Location of 9506 Duct

9506 ducting requires 13 rack spaces for installation. 9506 duct components are to be installed prior to switch installation and are not designed to support the switch.

NOTE: In server cabinet application, front-to-back equipment rail depth must be set to between 28.0" and 29.5".

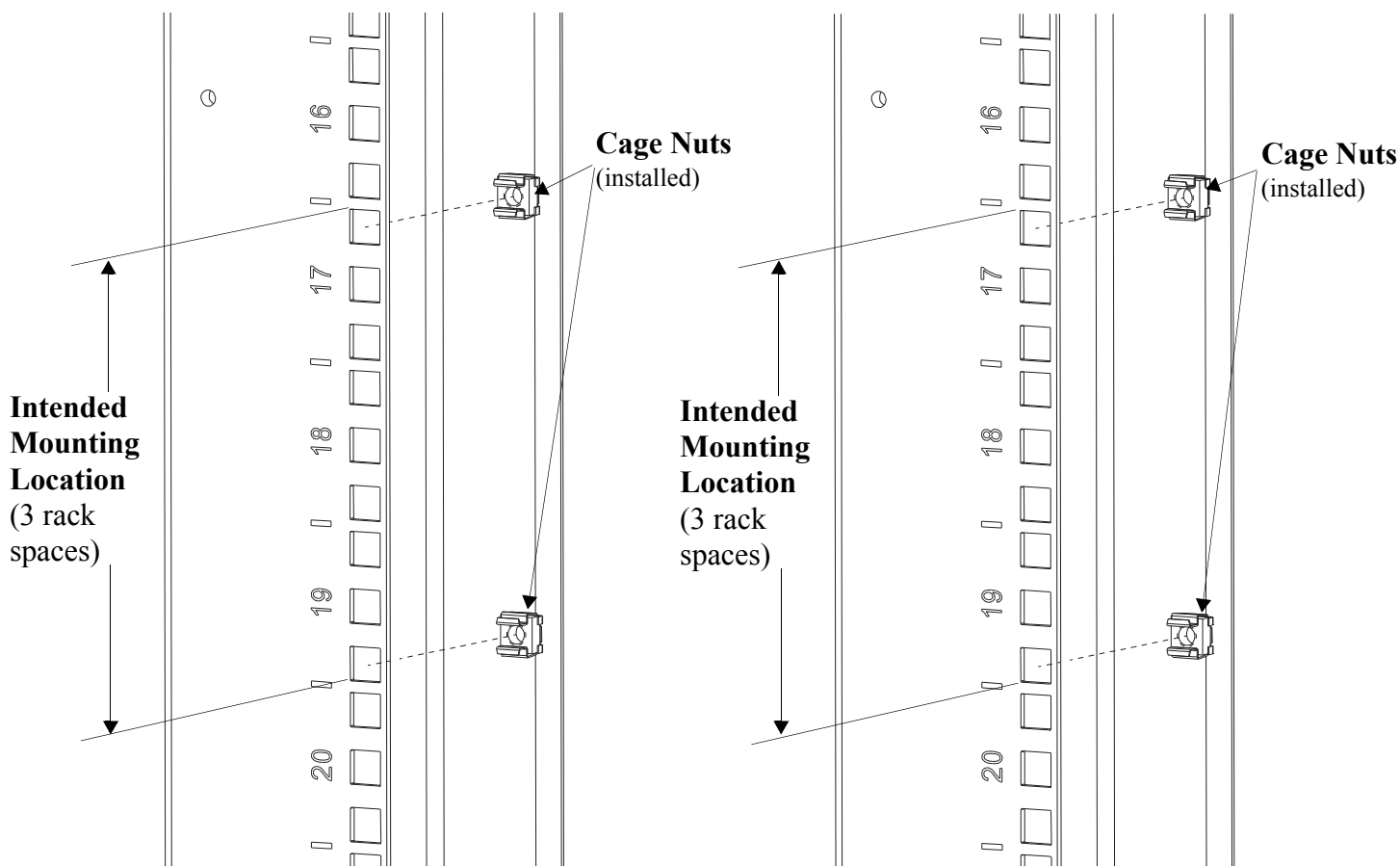


Cage Nut Installation

Insert (4) cage nuts per equipment rail at 9506 component mounting locations (16 total cage nuts are to be installed). (1) grounding cage nut (green) **must be** installed in each equipment rail. The view below depicts cage nut location for (1) front intended mounting location, and (1) rear mounting location.

Front E-Rail Cage Nut Locations

Rear E-Rail Cage Nut Locations



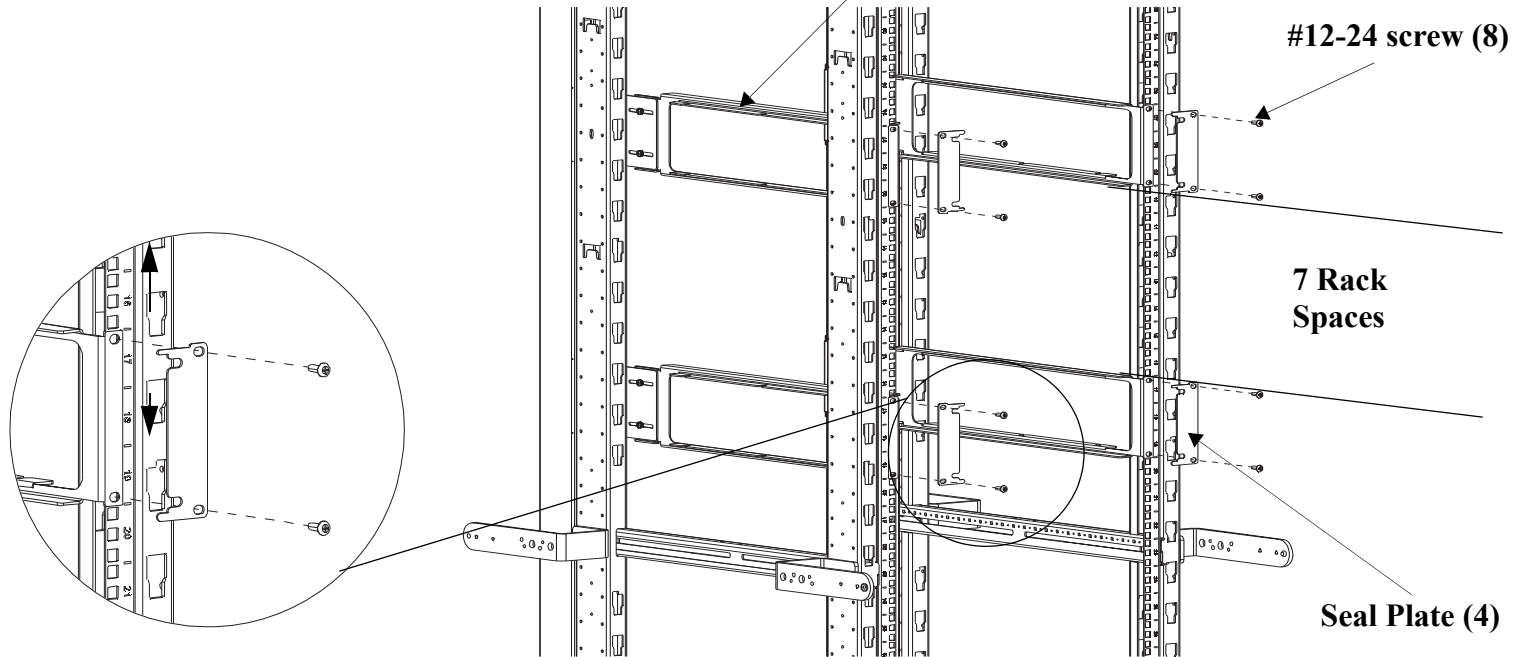
Side Bracket Installation (Server Cabinet Application)

Loosely attach the server adjustment bracket to the side bracket using (2) #10-32 nuts. Adjust the bracket to match the distance between the front and rear rails of the server cabinet. Align the side bracket with the desired rack space, fasten the bracket using (2) #12-24 screws in the front rail and (2) #12-24 screws fastening the seal plate and the bracket to rear rail. Tighten nuts on the adjustment bracket to lock in place. Attach a second bracket on the same side leaving (7) rack spaces from first bracket.
-Repeat previous steps for opposite side brackets.

NOTE ORIENTATION OF COLD AISLE.

Front of Cabinet
(Cold Aisle)

Side
Bracket (4)



#12-24 screw (8)

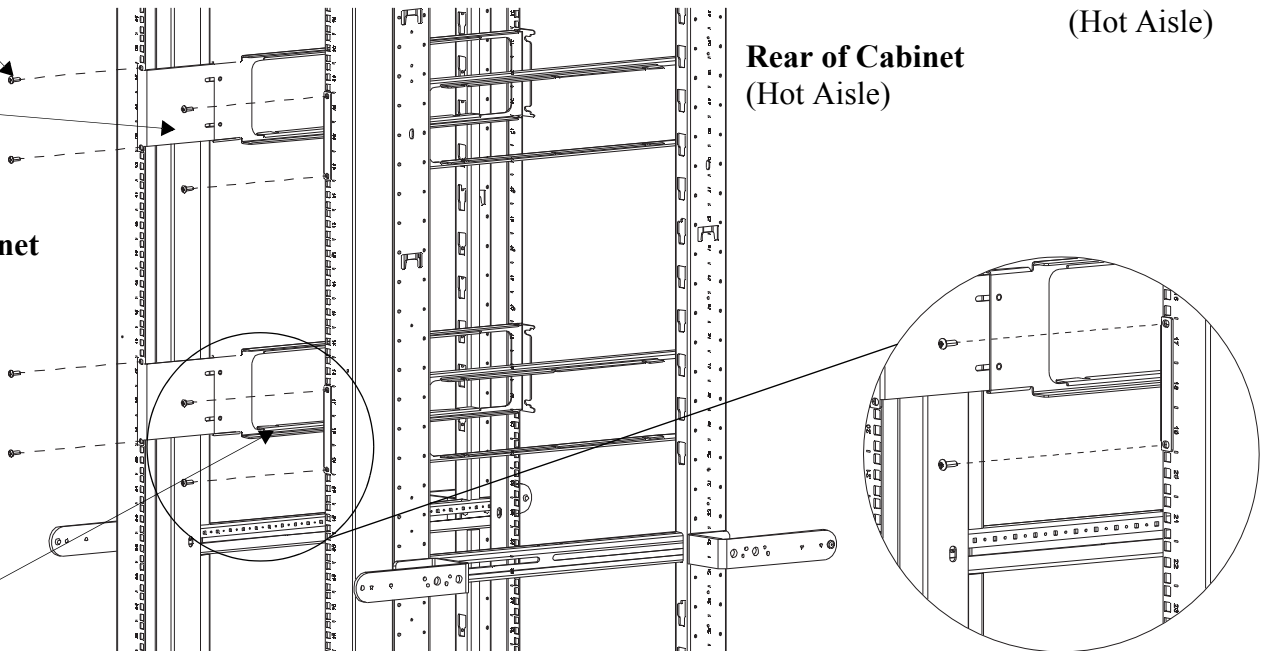
Adjustment
Bracket (4)

Front of Cabinet
(Cold Aisle)

Rear of Cabinet
(Hot Aisle)

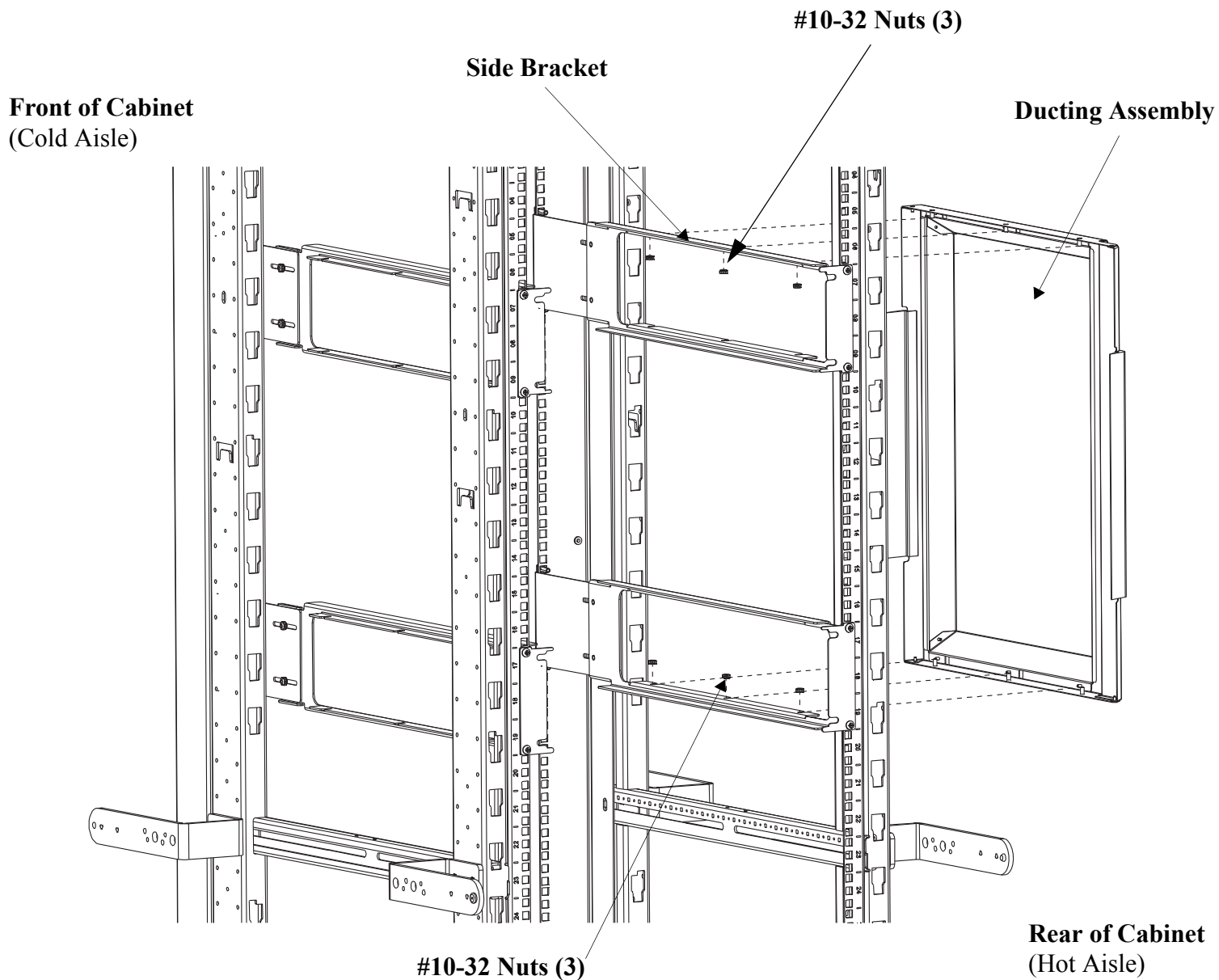
Rear of Cabinet
(Hot Aisle)

Side
Bracket (4)



Ducting Installation (Server Cabinet Application)

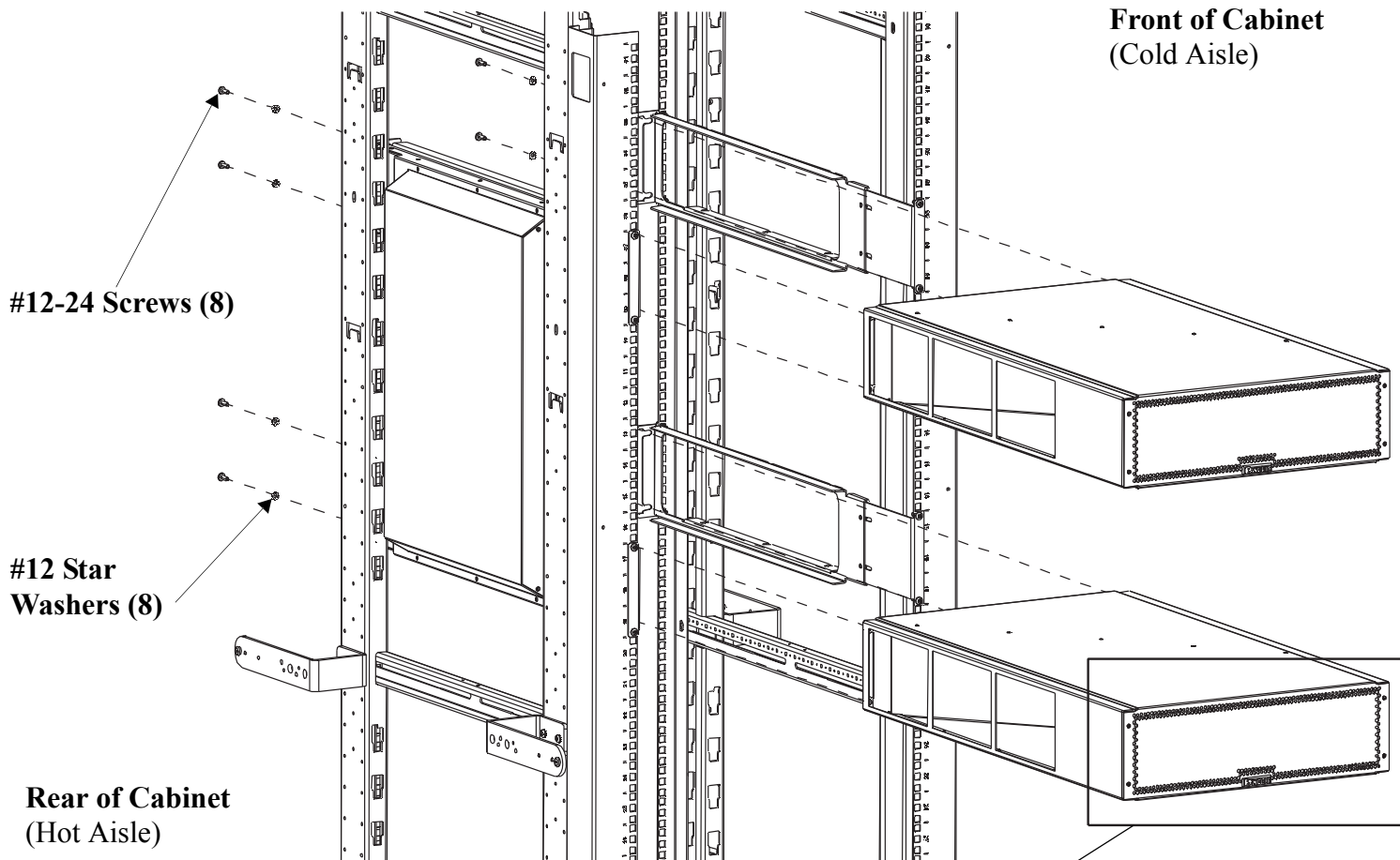
Install (1) ducting assembly to the brackets using (6) #10-32 nuts. Align duct with pem studs in side brackets and secure with (3) #10-32 nuts on the top bracket and (3) #10-32 nuts on the bottom bracket.



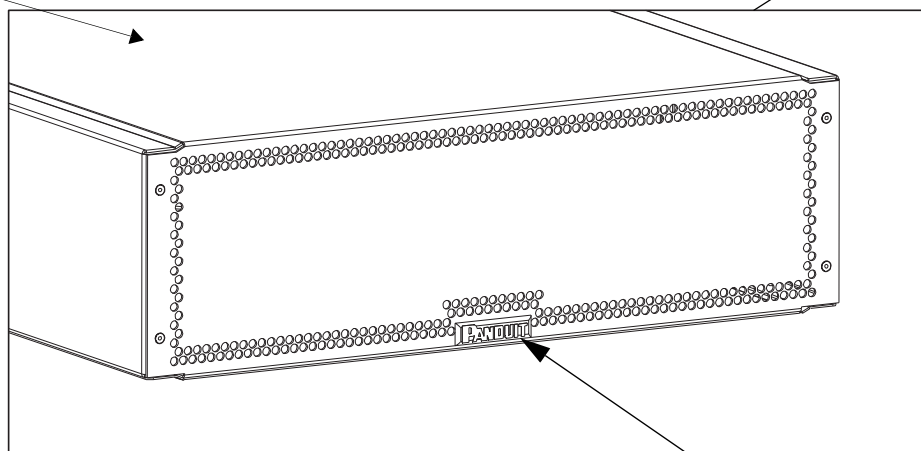
Duct Box Installation (Server Cabinet Application)

Insert top duct box into top side brackets by sliding duct box between built-in flanges. Push in until stop is reached. Secure box to the seal plate with (4) #12-24 screws and (4) #12 star washers. Once duct box is installed, remove the Panduit label and rotate it 180 degrees then re-apply label.

-Repeat process for bottom box.



Note: Orientation of Duct Box



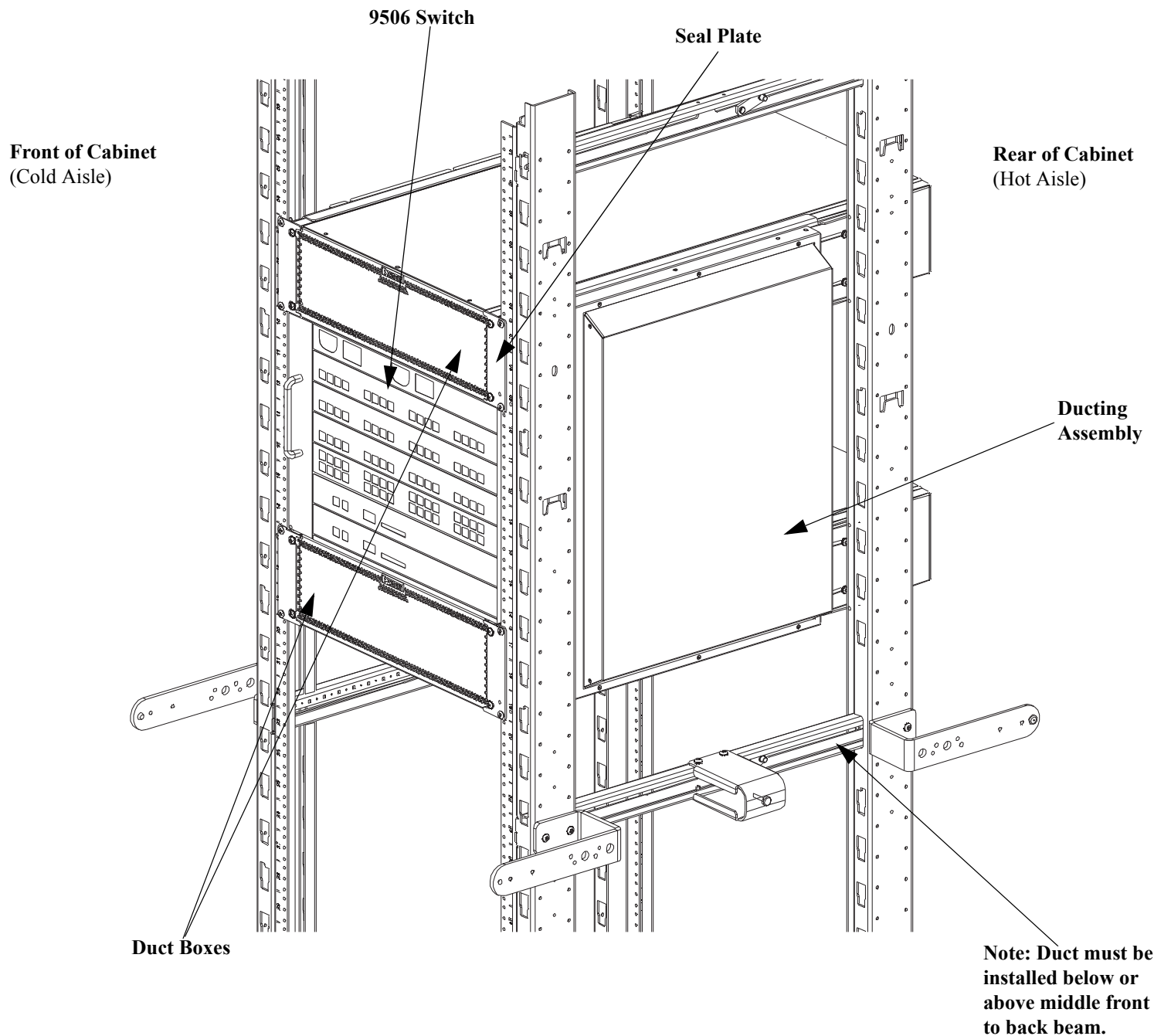
Last Step: Flip Label

SECTION 2-Switch Cabinet Application - Ports Facing Cold Aisle (Cabinet part numbers N*** or CN***)

Determine Location of 9506 Duct

9506 ducting requires 13 rack spaces for installation. 9506 duct components are to be installed prior to switch installation and are not designed to support the switch.

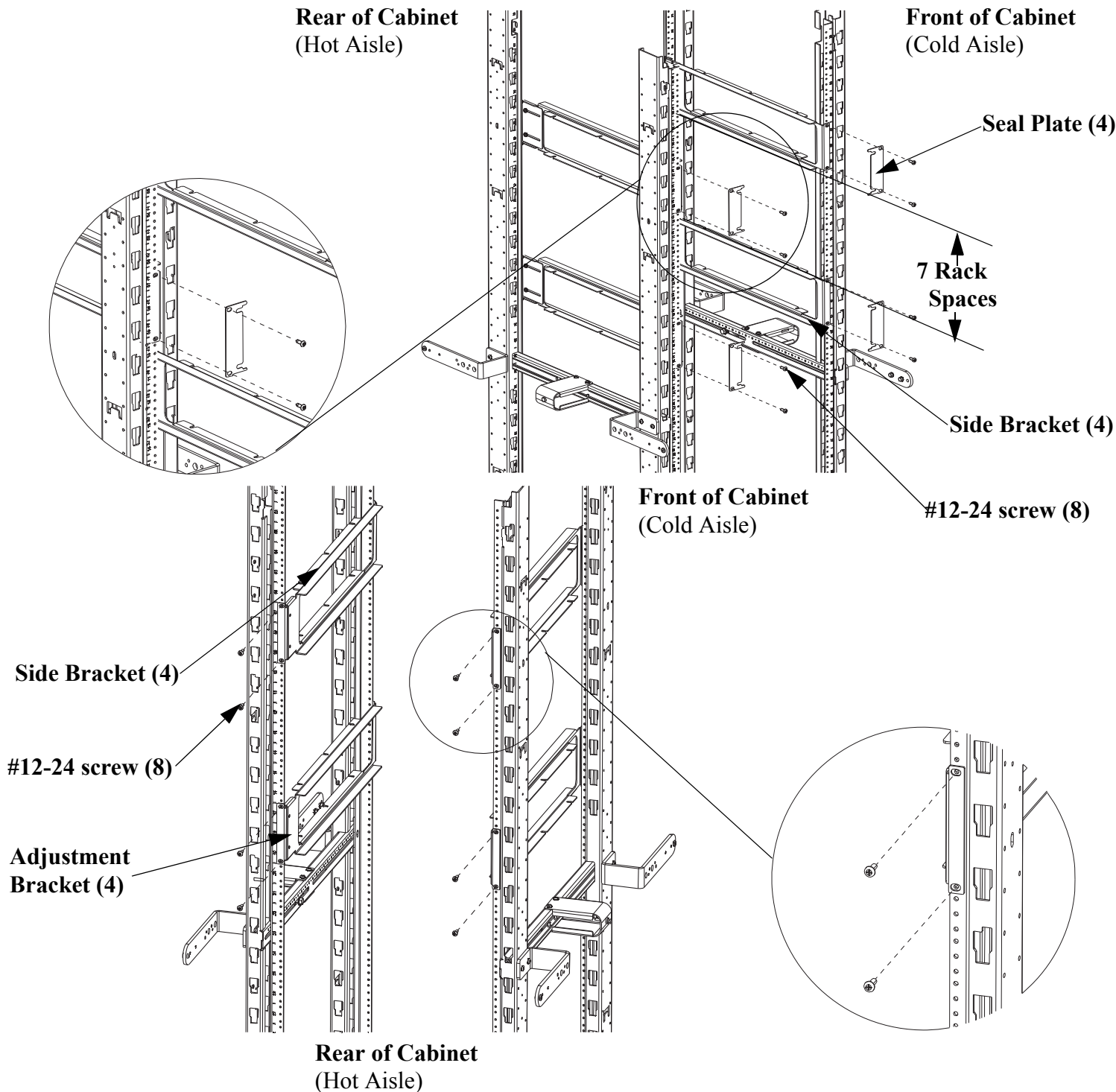
NOTE: Front-to-back equipment rail depth must be set to between 24.0" and 26.0".



Side Bracket Installation (Switch Cabinet Application)

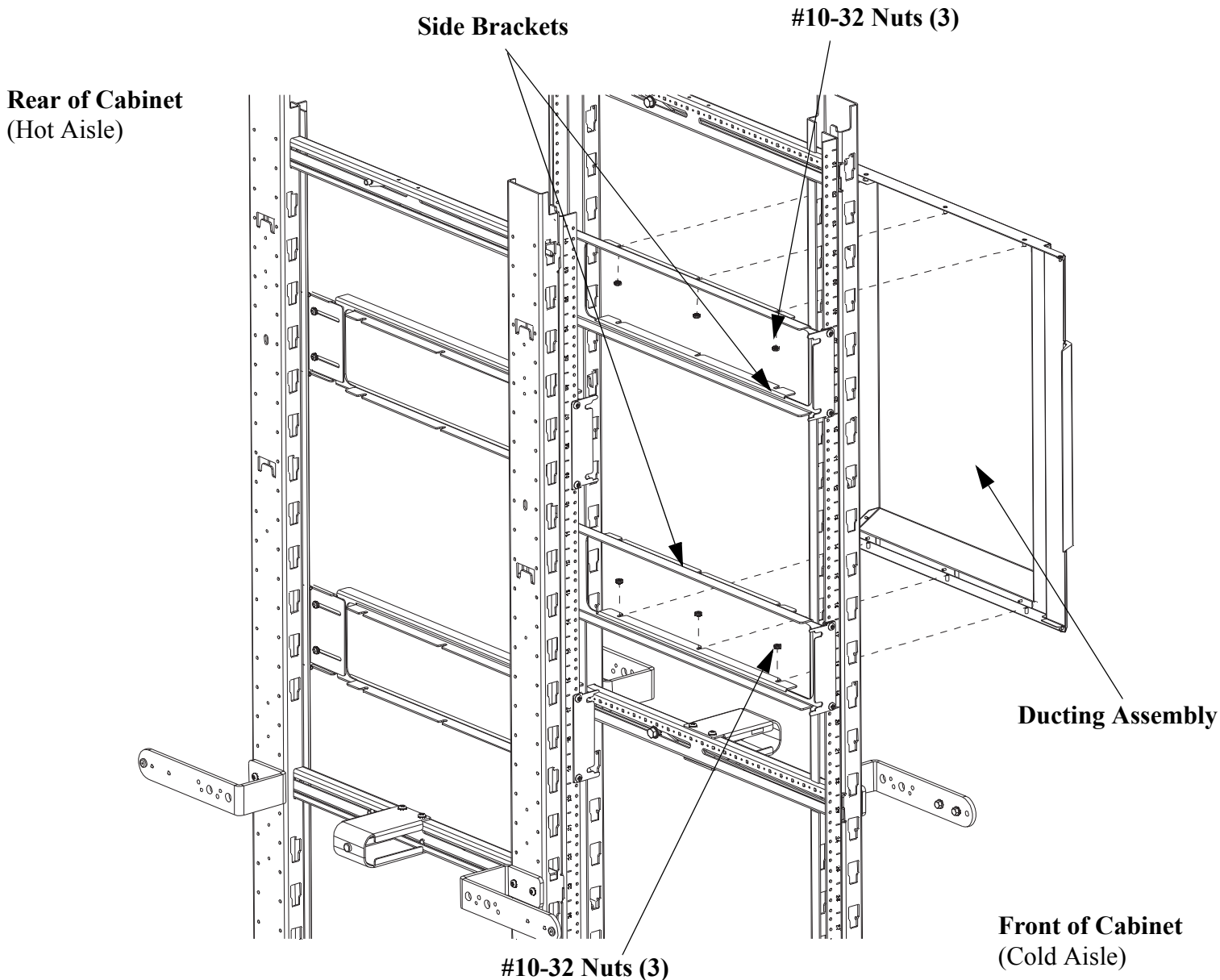
Loosely attach the switch adjustment bracket to the side bracket using (2) #10-32 nuts. Adjust the bracket to match the distance between the front and rear rails of the switch cabinet. Align the side bracket with the desired rack space, fasten the bracket and seal plate together to the rack using (2) #12-24 screws in the front rail and (2) #12-24 screws in the rear rail. Tighten nuts on the adjustment bracket to lock in place. Attach a second bracket on the same side leaving (7) rack spaces from first bracket.
-Repeat previous steps for opposite side brackets.

NOTE ORIENTATION OF HOT AISLE.



Ducting Installation (Switch Cabinet Application)

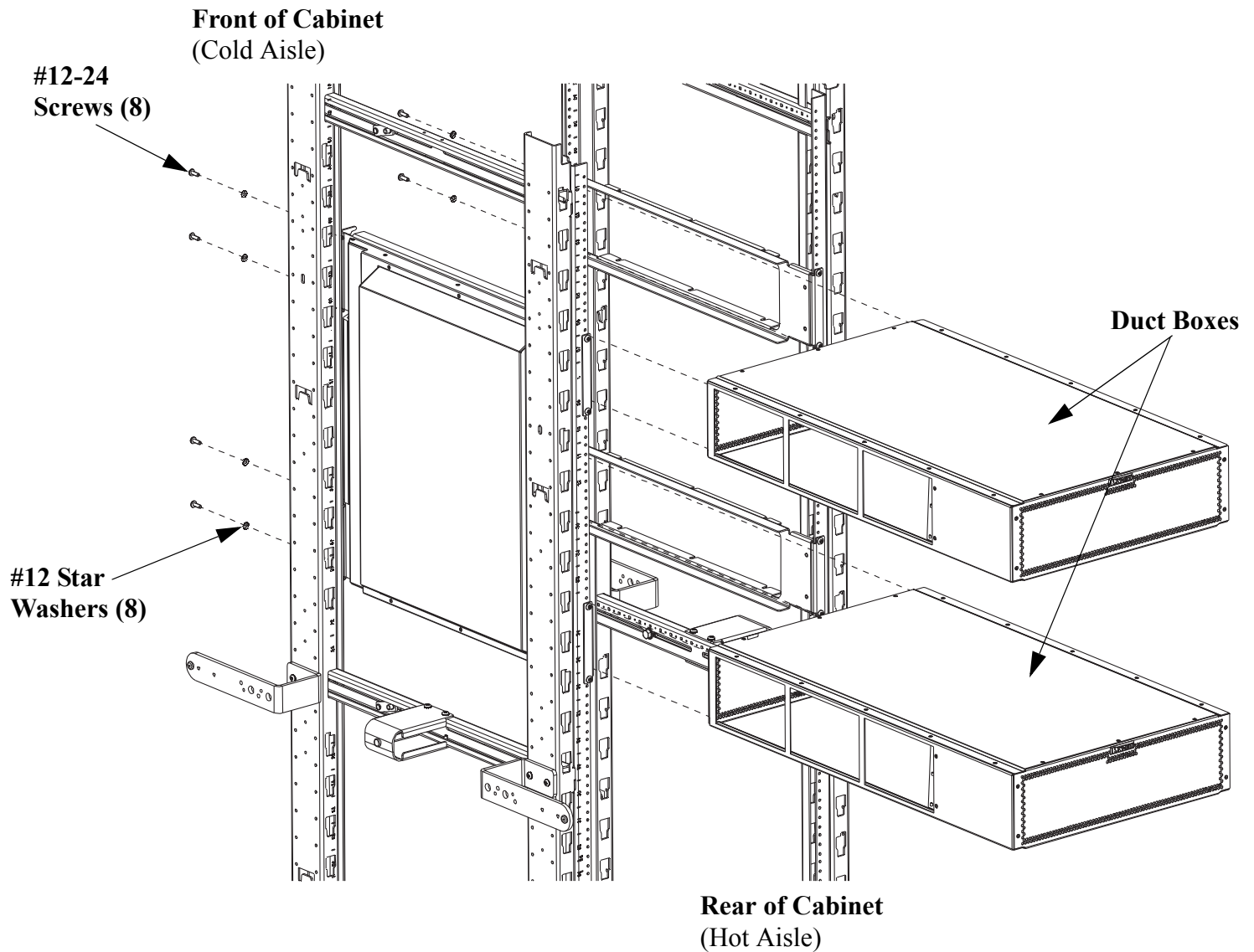
Install (1) ducting assembly to the side brackets using (6) #10-32 nuts. Align duct with pem studs in the side brackets and secure with (3) #10-32 nuts on the top bracket and (3) #10-32 nuts on the bottom bracket.



Duct Box Installation (Switch Cabinet Application)

Insert top duct box into top side brackets by sliding the duct box between built-in flanges. Push in until stop is reached. Secure box to the seal plate with (4) #12-24 screws and (4) #12 star washers.

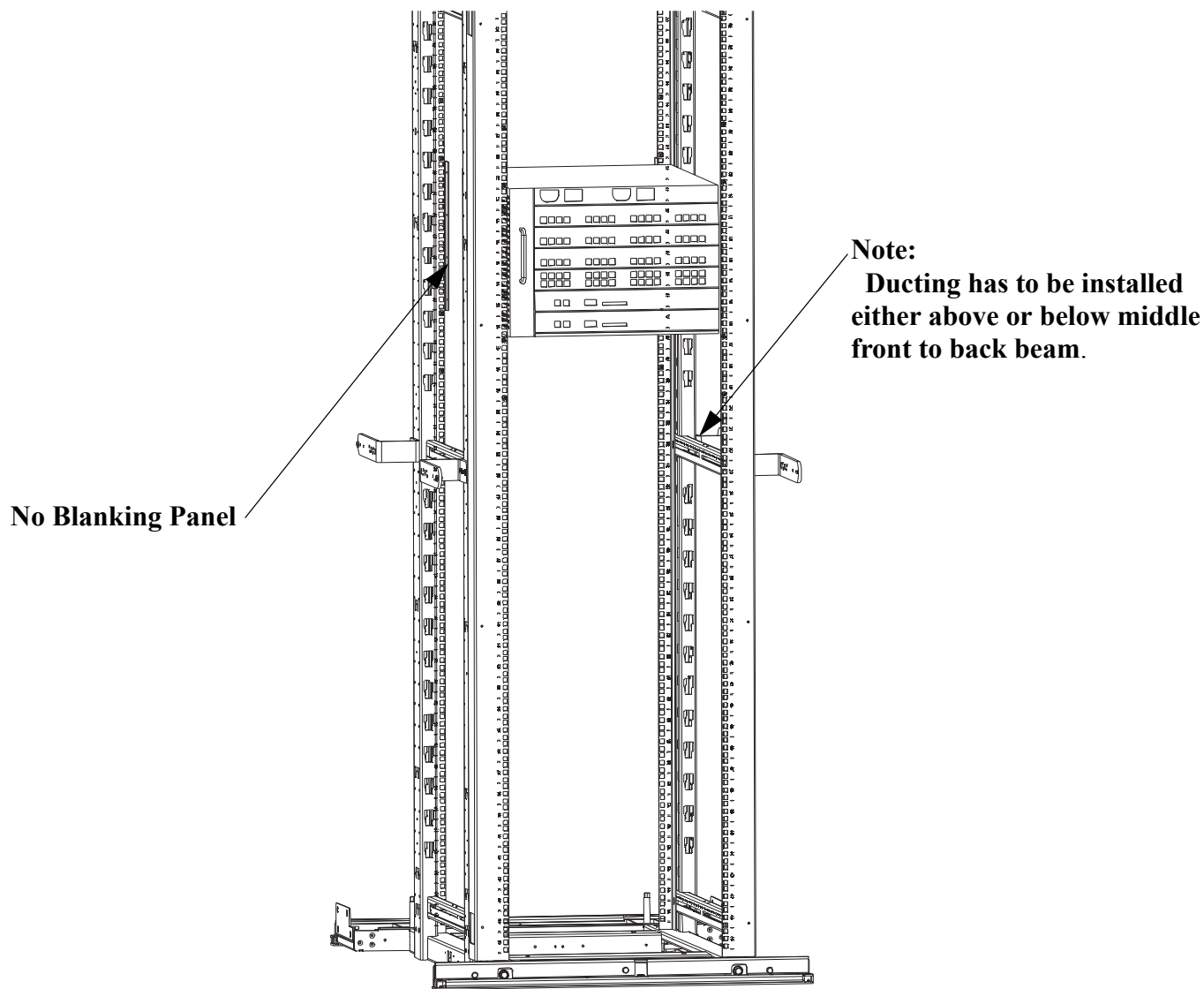
-Repeat process for bottom box.



SECTION 3-Day Two Installation

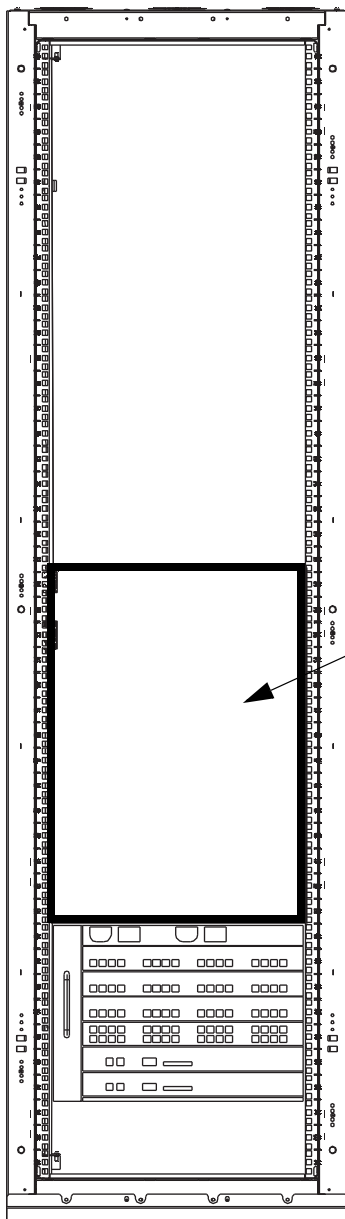
Day Two Installation (Net-Access Legacy Switch or Server Cabinet)

For second day installation of 9506 duct in a Net-Access cabinet the blanking panel must be removed. Switch must be either below or above the middle front to back beam by at least 3 RU's. After switch is installed, mount the side brackets for the ducting. The side duct assembly should now slide easily through the openings where the blanking panels were removed and will attach to the side brackets.

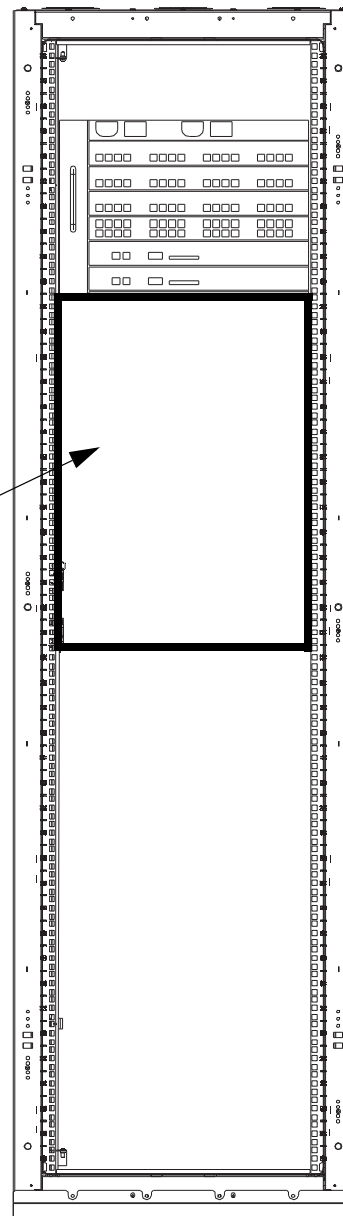


Day Two Installation (Net-Serve)

For day two installation there needs to be no obstructions within 17 RU either above or below the switch to allow adequate room for the side duct. Mount side brackets for the ducting as previously instructed. With no obstructions either above or below the switch side the side duct assembly up or down along the side of the cabinet into place with the side brackets.

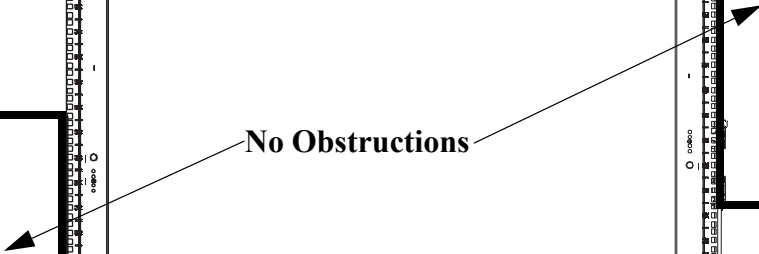


**Front View of
Net-Serve Cabinet**



**Front View of
Net-Serve Cabinet**

No Obstructions



For Instructions in Local Languages
and Technical Support:
www.panduit.com/resources/install_maintain.asp

PANDUIT
www.panduit.com

E-mail:
techsupport@panduit.com
Phone:
866-405-6654