Installation, and Customization Manual

NetShelter™ SX Networking Cabinet

AR3140
AR3340
AR3347

990-3548D-001
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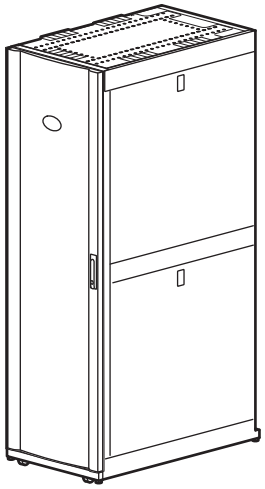

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Introduction

The APC by Schneider Electric NetShelter™ SX Networking 750 mm (29.53 in) wide cabinets are high-quality cabinets for storage of industry-standard (EIA-310), 19 in rack-mount hardware, which includes servers and voice, data, networking, internetworking, and power protection equipment.

This manual covers the following models:

Model	Cabinet Mounting Height	External Cabinet Width	Cabinet Depth
AR3140	42 U†	750 mm (29.53 in)	1 070 mm (42.13 in)
AR3340	42 U†		1 200 mm (47.24 in)
AR3347	48 U†		1 200 mm (47.24 in)

† One U= 44.45 mm (1.75 in).

For a complete list of accessories and more information, see **www.apc.com**.

Important Safety Information

Read the instructions carefully to become familiar with the device before trying to install, operate, service or maintain it. The following messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **can result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** minor or moderate injury.

NOTICE

NOTICE addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Safety Instructions for the NetShelter SX Networking Cabinet

This manual contains important instructions that must be followed during the installation and customization of the cabinet.

⚠ WARNING

TIP HAZARD

- This cabinet is easily tipped. Use extreme caution when unpacking or moving.
- When moving the cabinet on its caters, push only from the front or back.
- Before moving the cabinet on its casters, load 158 kg (350 lb) of equipment into the bottom of the cabinet for extra stability.
- Make sure the leveling feet are up when moving the cabinet on its casters.

Failure to follow these instructions can result in death or serious injury.

⚠ WARNING

HEAVY EQUIPMENT HAZARD

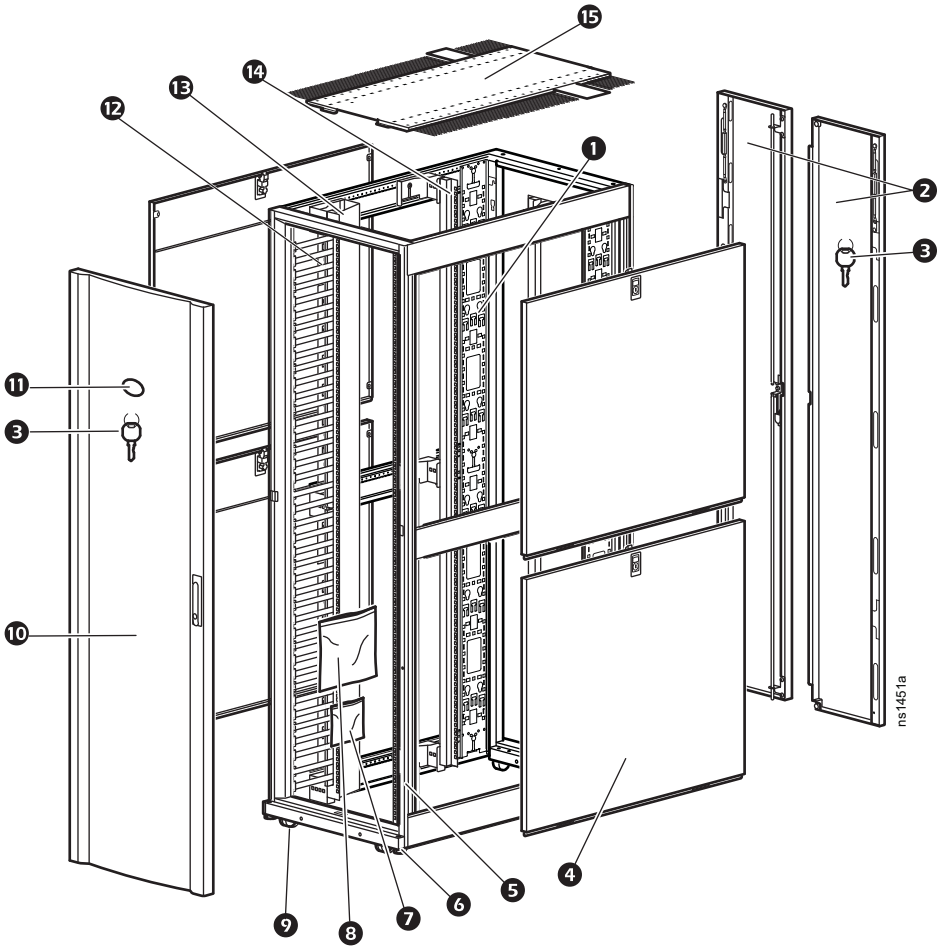
At least two people are required to unpack the cabinet.

Failure to follow these instructions can result in death or serious injury.

Labels

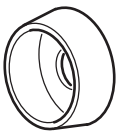
Look for additional safety information affixed to the cabinet. See “Labels” on page 6 for more information.

Component Identification

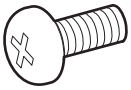


1. Adjustable Vertical 0 U Accessory Channel
2. Removable Rear Split Doors
3. Key for Doors and Side Panels
4. Removable Side Panels with Locks
5. Cabinet Frame
6. Adjustable Leveling Feet
7. Hardware Bag (see page 5)
8. Airflow Management Kit (see page 5)
9. Casters
10. Removable and Reversible Front Door
11. Nameplate (if equipped)
12. Vertical Cable Managers
13. Mounting Rail Cable Manager
14. Vertical Mounting Rails
15. Roof

Hardware Bag



Plastic cup washers (60)



M6 x 16 Phillips slot screws (60)

M5 x 12 screws (4)

Cage nuts (60)

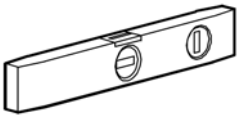
7-mm hole plugs (4)

TORX® T30/#2 Phillips wrench

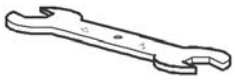
Cage nut tool

Required Tools (not provided)

Phillips head screwdriver

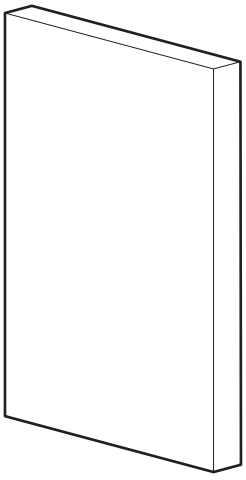


Level

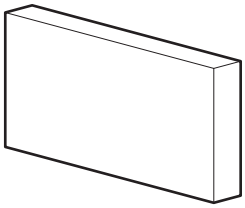


13/14-mm wrench

Airflow Management Kit



3 U Foam panel
42 U [AR3140 and AR3340] (12)
48 U [AR3347] (14)



1 U Foam Panel (4)

Preparation

Move the Cabinet

⚠ WARNING

TIP HAZARD

- This cabinet is easily tipped. Use extreme caution when unpacking or moving.
- At least two people are required to unpack the cabinet.
- Before moving the cabinet on its casters, load 158 kg (350 lbs) of equipment into the bottom of the cabinet for extra stability.
- When moving on its casters, make sure the leveling feet are up, and push the cabinet from the front or rear.

Failure to follow these instructions can result in death or serious injury.

❶

❷

Labels: The following labels can be found on the cabinet, and serve to communicate the following information:

Label ❶: Generic Tip Hazard.

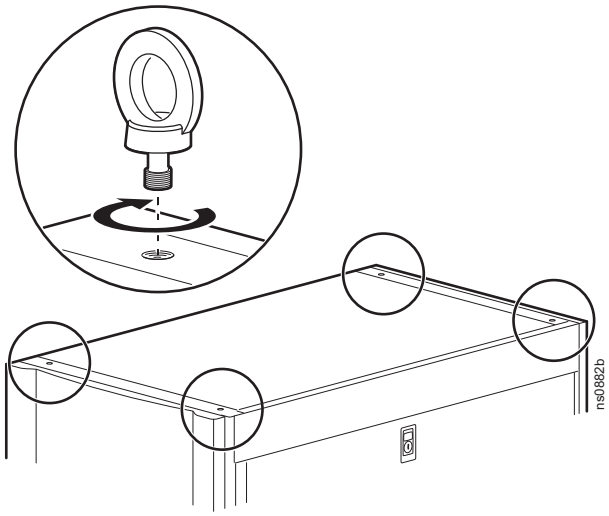
Label ❷: Extend Slide-Mounted Hardware One Piece at a Time. Do not extend loaded top-mounted sliding hardware unless the cabinet is secured to the floor.

Casters: The cabinet can be moved on its casters with up to 1 020.58 kg (2,250 lb) of equipment installed. Once in place, lower the leveling feet. With the leveling feet lowered, the static cabinet can be loaded to 1 704.97 kg (3,750 lb).

NOTE: Some labels on cabinet indicate caster related information. See label ❸ to right.

❸

Eye bolts: The cabinet can be lifted using eye bolts with up to 567 kg (1,250 lbs) of equipment installed. Use M10 eye bolts with a shoulder rated for 181 kg (400 lbs).



Level the Cabinet

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

When installing the doors, remember to reconnect all ground and other connection wires.

Failure to follow these instructions will result in death or serious injury.

NOTE: The leveling feet of the cabinet provide a stable base on an uneven floor. They cannot compensate for a badly sloped surface.

1. Ensure the cabinet is in its intended location. Remove the front and rear doors. See “Door removal” on page 13 for more information.

   NOTE: Before removing the front door, disconnect the ground wires and any other wire connections that may interfere with the removal of the doors.

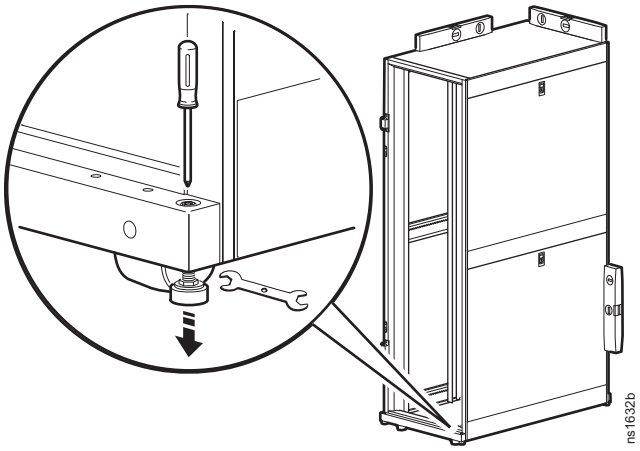
2. Insert a Phillips head screwdriver into the screw above the leveling foot. Turn the screw to the right to extend the leveling foot until it makes firm contact with the floor.

   NOTES:

   – This method works best with an empty, or near empty cabinet.

   – If the cabinet is loaded with equipment, a 13 mm open ended wrench can also be used to lower the leveling feet.

   – Door removal is not required if using the 13 mm open-ended wrench.



3. Adjust each foot and, using a level, adjust the feet until the cabinet is level and plumb.
4. If desired, join the cabinets. See “Join the Cabinets” on page 8.
5. If desired, install the front and rear doors. See “Door installation” on page 14.

Join the Cabinets

⚠ WARNING

TIP HAZARD

Joining cabinets provides limited stability to the cabinets. Secure the cabinet to the floor before installing equipment.

Failure to follow these instructions can result in death or serious injury.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

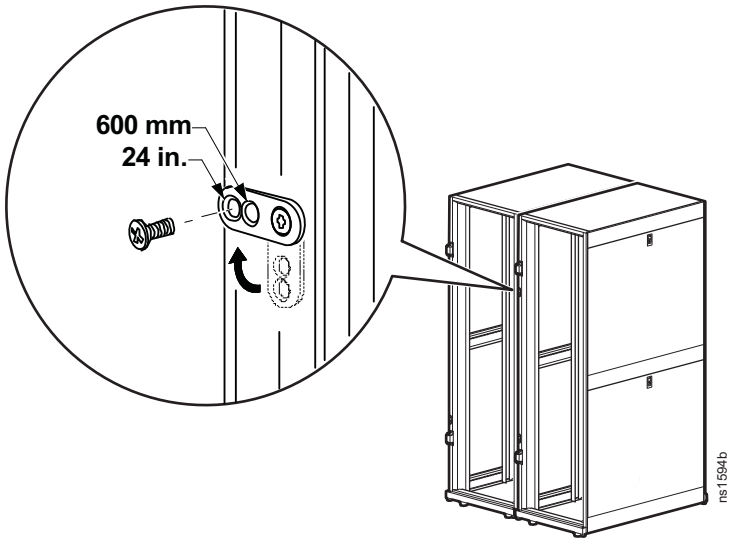
When installing the doors, remember to reconnect all ground and other connection wires.

Failure to follow these instructions will result in death or serious injury.

Join two or more cabinets together using the supplied joining hardware. Joining cabinets together may assist in alignment and provide limited increased stability.

NOTE: Cabinets can be joined with or without side panels installed.

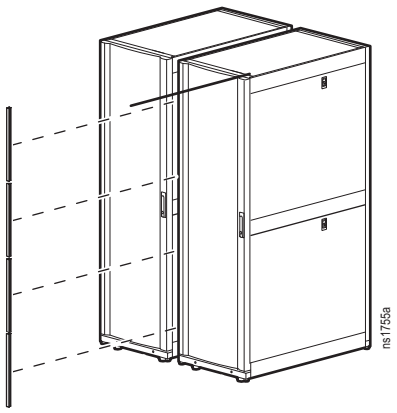
1. Make sure that the leveling feet are down and the cabinets are level. See “Level the Cabinet” on page 7.
2. Remove the front and rear doors, if applicable. See “Door removal” on page 13 for more information.
3. Locate the joining brackets. Choose between 24 in centers or 600 mm centers (see the detail view below).



4. Align the cabinets and join them using one M5 x 12 flat-head screw (provided in the hardware bag) per bracket. There are two brackets for the front and two brackets for the rear.
5. Reinstall the doors. See “Door installation” on page 14 for more information.

42/48 U Joining Trim Kit - AR7600 (Optional)

Joining trim is available for order. This item fills the gap present between cabinets spaced on 24 in centers.



Ground the Cabinet

⚠ ⚠ DANGER

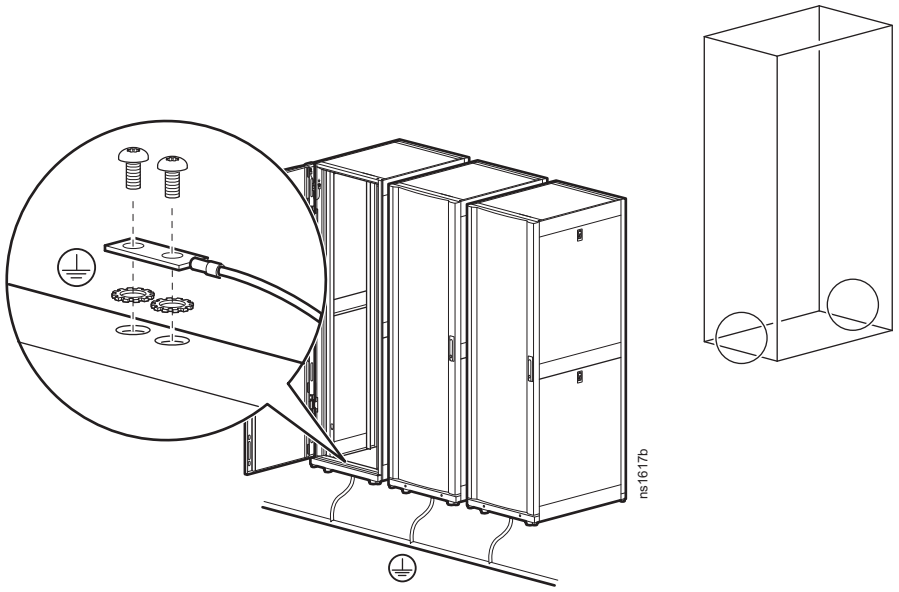
HAZARD OF ELECTRIC SHOCK

The cabinet must be connected to the building Common Bonding Network (CBN).

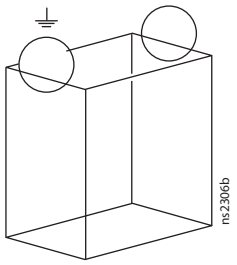
Failure to follow these instructions will result in death or serious injury.

Each cabinet should be bonded directly to a common ground using one of the designated grounding locations (two M6 threaded inserts) at the bottom of the cabinet.

- Use a Common Bonding Network Jumper kit (for example, Listed [KDER] Panduit® RGCBNJ660PY or equivalent).
- Use paint-piercing washers between ground terminal and cabinet frame or remove paint on frame under ground terminals per NEC NFPA 70 Article 250.12.
- Torque screws to 6.9 N•m (60 lb-in).
- Do not ground cabinets in a cascading style.



NOTE: If needed, additional functional grounding points are available at the top of the cabinet. Do not connect the building CBN to these functional grounding points.



Stabilization Options

⚠ WARNING

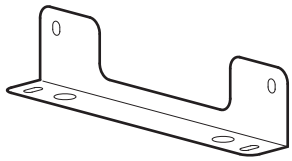
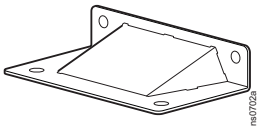
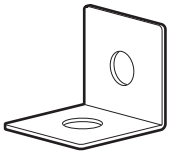
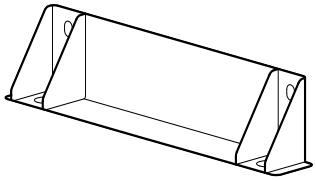
TIP HAZARD

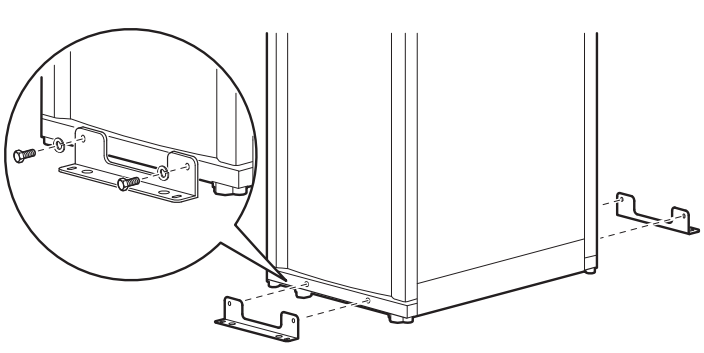
Secure the cabinet to the floor before installing equipment.

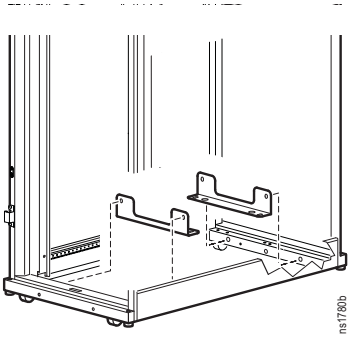
Failure to follow these instructions can result in death, serious injury, or equipment damage.

The cabinet can be bolted to the floor internally or externally, as shown below. See **www.apc.com** for a complete list of available stabilization options.

NOTE: Only use the stabilization accessories with the casters or leveling feet installed.

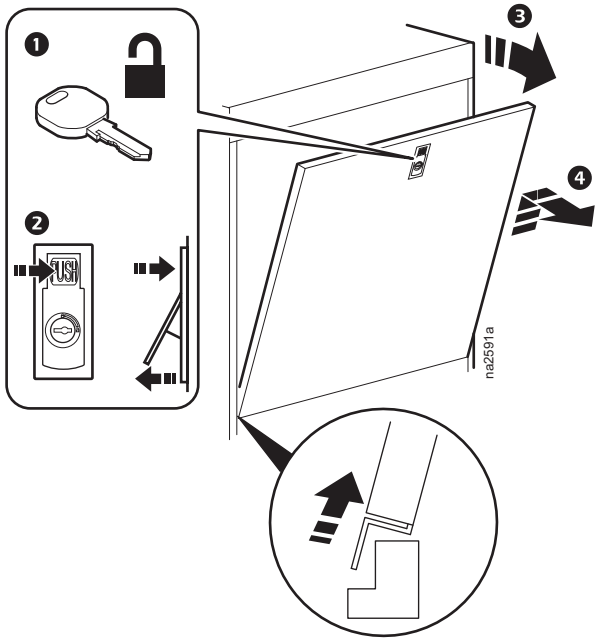
Accessory	Part Number	Description	
Pallet/bolt-down brackets	Provided	Attaches to the rack and floor, internally or externally, to provide additional stability without blocking cable access. Designed for use in low and moderate seismic regions.	
NetShelter SX stabilizer plate	Option (AR7700)	Attaches externally to the rack and floor to provide additional stability. Designed for use in low and moderate seismic regions.	
Bolt-down kit	Option (AR7701)	Attaches to the rack and floor, internally or externally, to provide additional stability without blocking cable access. Designed for use in low and moderate seismic regions.	
High-seismic region bolt-down kit	Option (AR7701A-S)	Attaches to rack and floor, internally and externally, to provide additional stability without blocking cable access. With the appropriate mounting hardware, meets high seismic region (UBC Zone-4) requirements. **NOTE:** Not a substitute for racks designed to meet UBC Zone-4 requirements.	



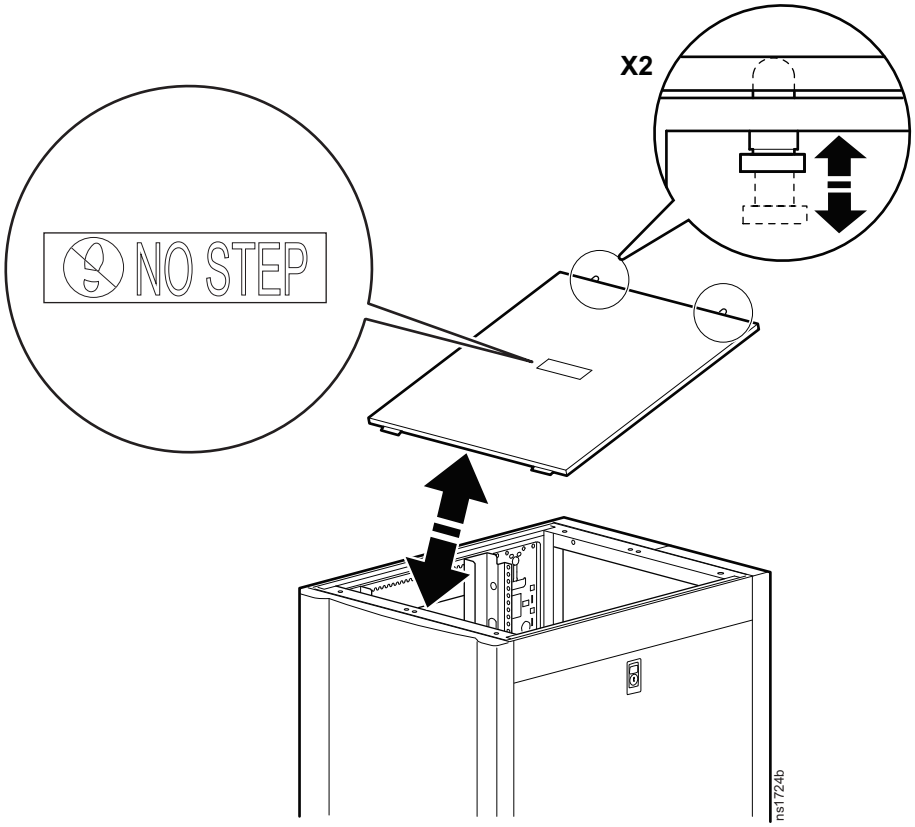


Cabinet Installation

Side Panels



Roof

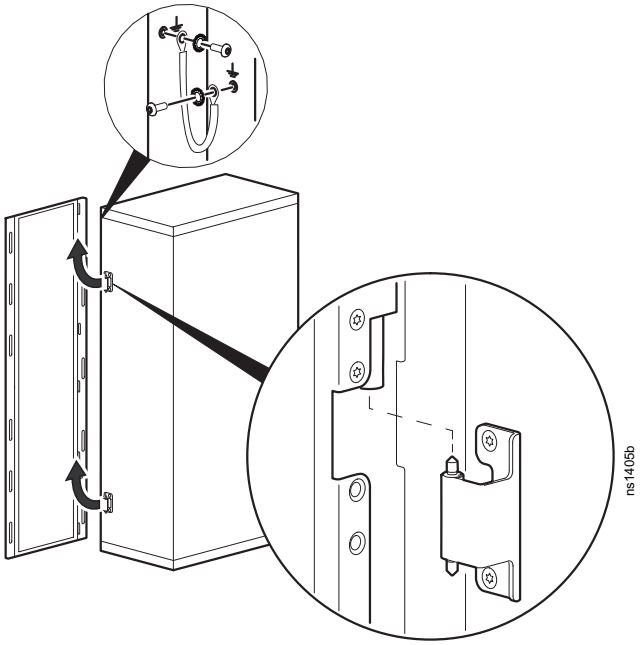


Doors

Door removal

This procedure can apply to the front or rear doors.

If you intend to reinstall the door in the same position, disconnect the ground wire. Otherwise, use the TORX wrench (provided) to remove the ground wire completely. Then lift the door up off the hinges.



Door installation

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

When installing the doors, remember to reconnect all ground and other connection wires.

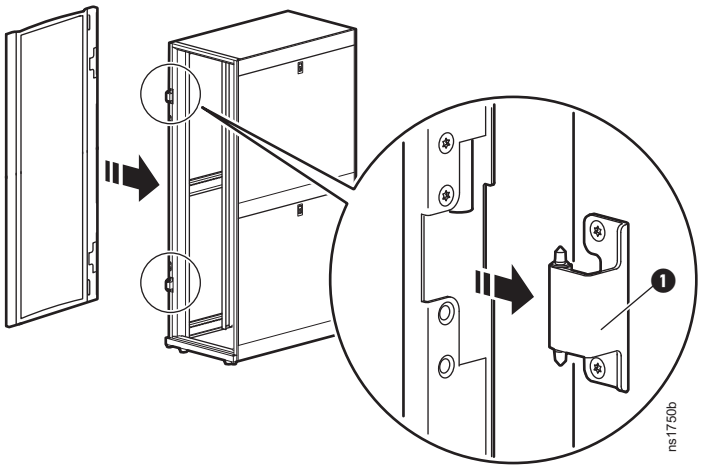
Failure to follow these instructions will result in death or serious injury.

This procedure can apply to the front or rear doors

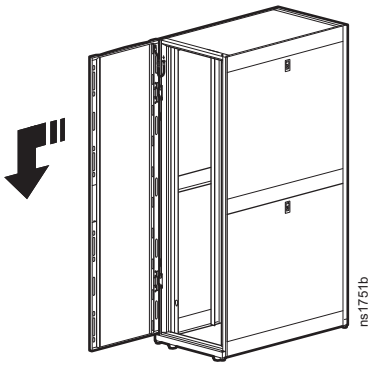
NOTE: The front door can be attached on either the left or right side of the cabinet. When facing the cabinet, this procedure installs the door on the left side, causing the door to open from the right.

1. With the door at a 90-degree angle to the front of the cabinet, position the door over the hinge pins ❶.

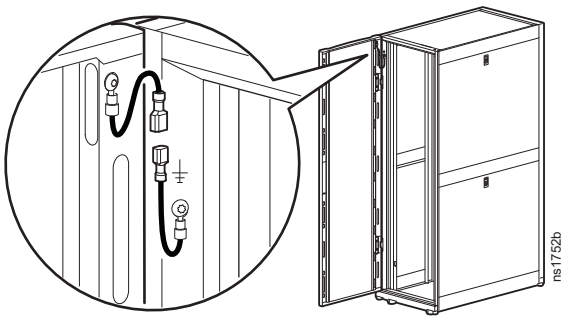
   NOTE: Doors self-align on hinge pins when properly reinstalled.



2. Use slight pressure to pull the door away from the cabinet, then lower the door.



3. Connect the ground wire.



Front door reversal

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

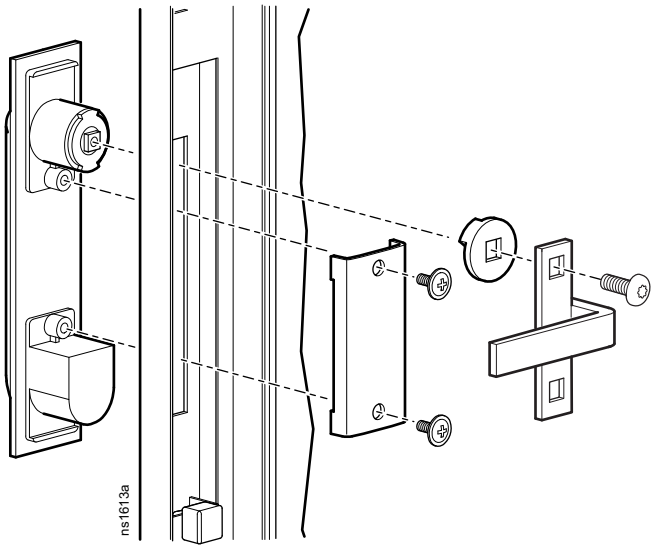
When installing the doors, remember to reconnect all ground and other connection wires.

Failure to follow these instructions will result in death or serious injury.

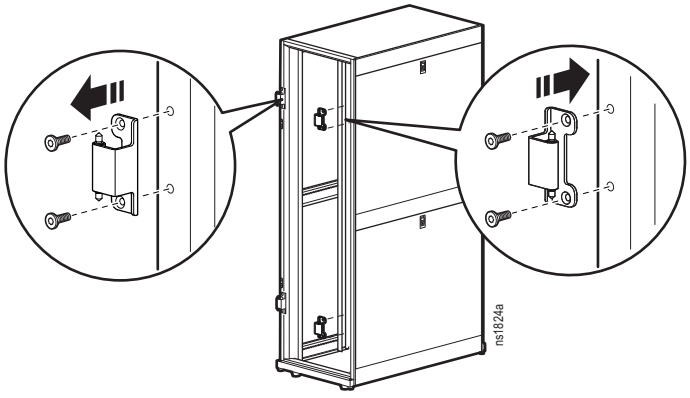
The front door can be attached on either side of the cabinet. When facing the cabinet, this procedure installs the door on the right side, causing it to open from the left.

NOTE: If installed, the front door will need to be removed. See “Door removal” on page 13 before you proceed.

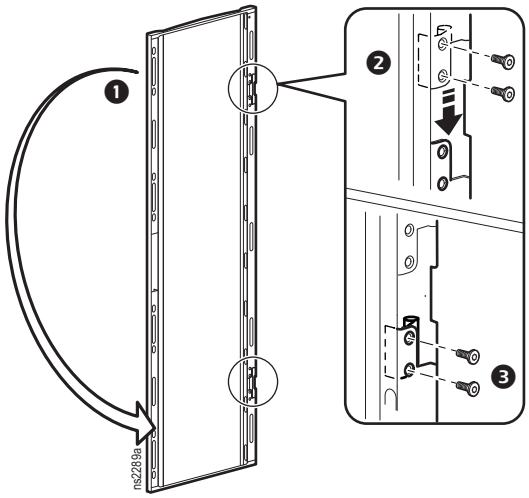
1. Remove the handle assembly.
2. Remove the nameplate (if equipped).



3. Remove the hinges. Rotate the hinges 180 degrees and install them on the opposite side of the front door frame of the cabinet.

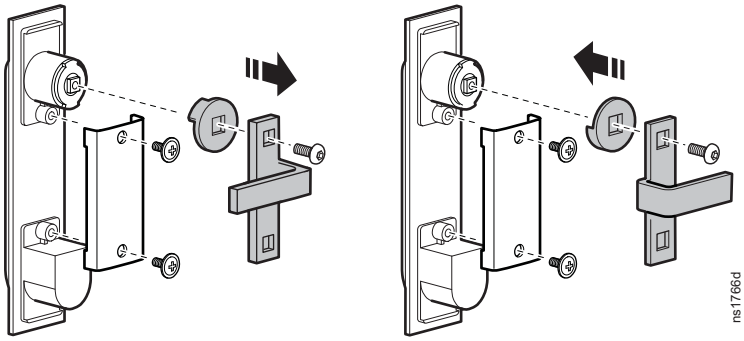


4. Rotate the door. Reposition and install the hinges in the door as shown.

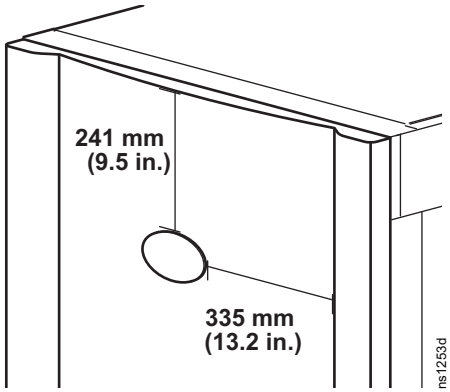


5. Install the door on the right side of the cabinet and connect the ground wire. See “Door installation” on page 14.

6. Install the handle on the door with the washer rotated 90-degrees from its original position, and the latch rotated 180 degrees from its original position.



7. Remove the nameplate from the bottom of the door and install as shown, if applicable.



Equipment Installation

NOTE: NetShelter SX cabinets are intended for use with Listed equipment. Carefully evaluate the safety of any configuration using un-Listed equipment.

Vertical Mounting Rails

Equipment is secured to the vertical mounting rails. The installation of some equipment may require adjusting the position of the vertical mounting rails.

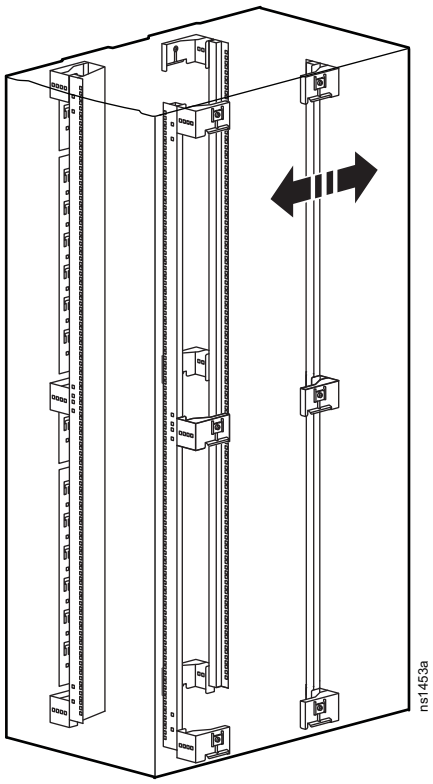
The vertical mounting rails can be moved towards the front or rear of the cabinet to accommodate different rails or equipment of various depths.

Default depth of factory installed vertical mounting rails:

- 1 070 mm (42.13 in) deep cabinet: 558.8 mm (22 in)
- 1 200 mm (47.24 in) deep cabinet: 749.3 mm (29.5 in)

The minimum rail depth is 279.4 mm (11 in). The maximum rail depth is as follows:

- 1 070 mm (42.13 in) deep cabinet: 819 mm (32.25 in)
- 1 200 mm (47.24 in) deep cabinet: 959 mm (37.75 in)



Adjust the Vertical Mounting Rails

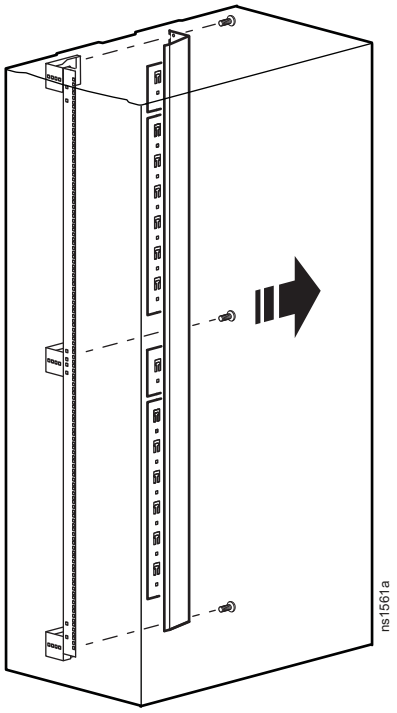
⚠ CAUTION

FALLING EQUIPMENT HAZARD

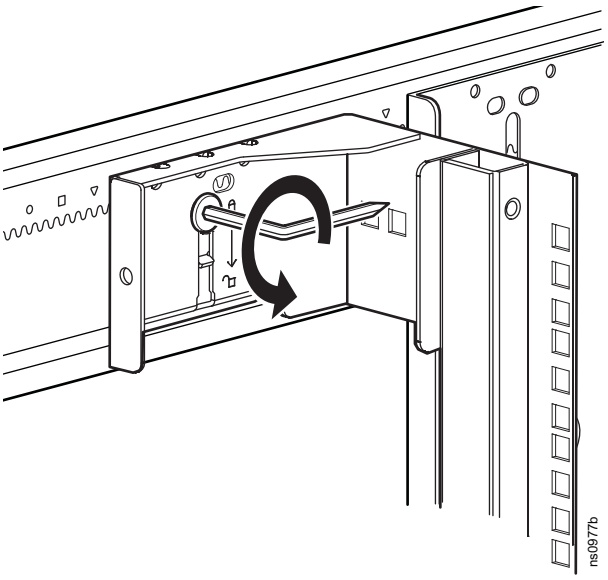
Vertical mounting rails must have all rail-mounted equipment removed before any adjustments are attempted.

Failure to follow these instructions can result in minor or moderate injury.

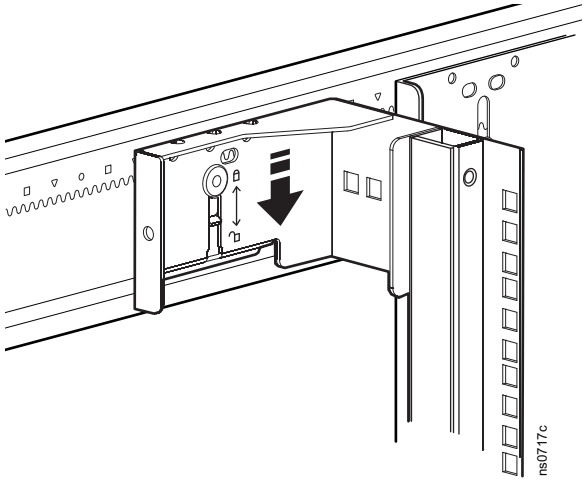
1. Remove the cable manager from the front left vertical mounting rail.



2. Use the Torx T30/#2 Phillips wrench (provided) to loosen each of the three screws, located at the top, bottom, and middle of the rail.



3. Lower the three flat brackets, which unlock the vertical mounting rail, and slide the vertical mounting rail to the desired location.

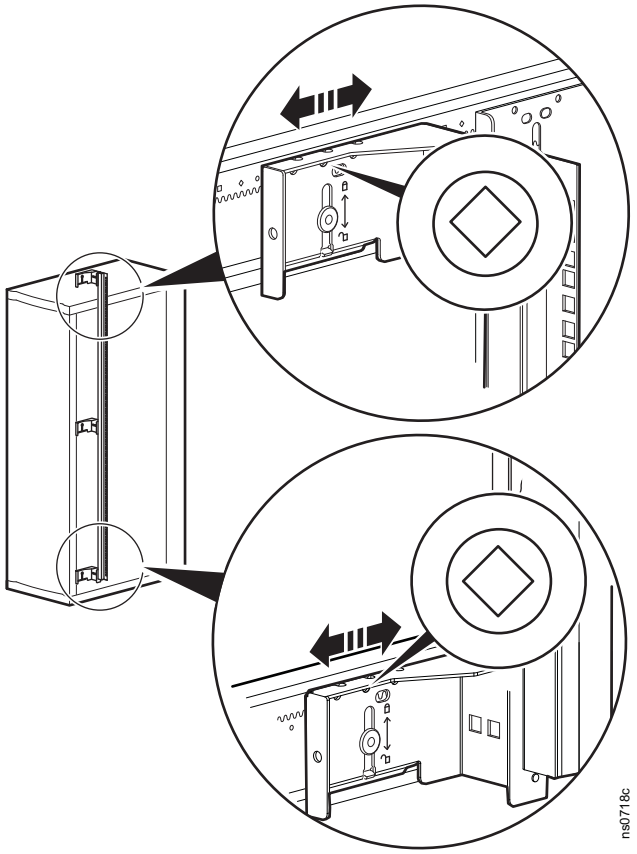


NOTE: Vertical mounting rails adjust in 6 mm (1/4 in) increments.

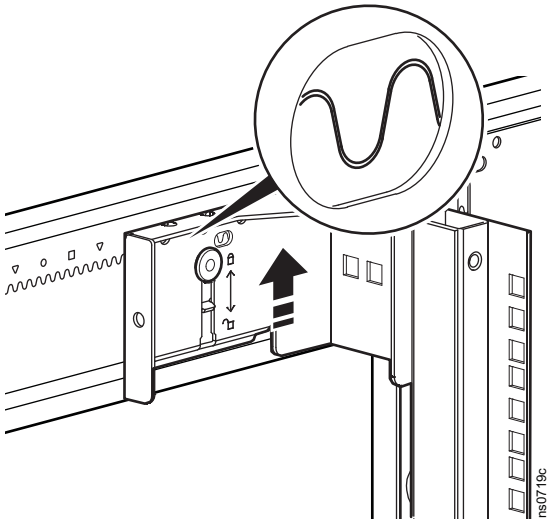
4. Locate the visible symbol (in the illustration, a diamond), along the vertical mounting rail. To align the vertical mounting rail, make sure the same symbol is visible through all three corresponding holes.

   NOTE: In the factory-standard position, diamonds are visible.

5. Ensure all vertical mounting rails have the same visible symbol.



6. When the vertical mounting rail is aligned (top, middle, and bottom), raise the flat bracket until the teeth in the bracket engage fully with the teeth in the side brace. Then tighten the screws, locking the rail in place.



Install Equipment in the Cabinet

⚠ WARNING

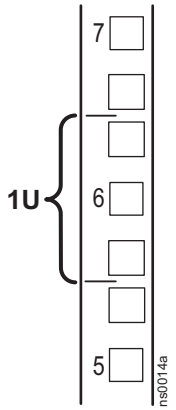
TIP HAZARD

- This cabinet is easily tipped. Follow all tipping precautions during and after equipment installation.
- Secure the cabinet to the floor before installing equipment.
- Install the heaviest equipment first toward the bottom of the cabinet to prevent the cabinet from becoming top heavy.
- Do not extend equipment on sliding rails until minimum of 158 kg (350 lbs) of equipment is installed into the bottom of the cabinet. Alternately, the stabilizer plate or bolt-down brackets can also be installed. Do not extend more than one piece of equipment on sliding rails at a time.

Failure to follow these instructions can result in death or serious injury.

Identify one U-space on the vertical mounting rail

- Review the equipment manufacturer's installation instructions.
- When installing equipment, locate the top and bottom of a U-space on the mounting rails.
- Every third hole on the mounting rails is numbered to indicate the middle of a U-space.
- A U-space consists of a numbered hole, and the hole immediately above and below it, as shown.

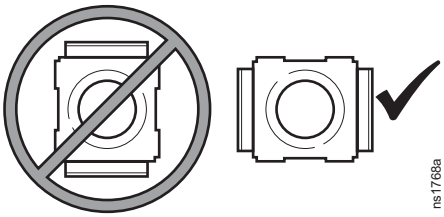


Cage nuts

APC by Schneider Electric offers a cage nut hardware kit (AR8100) for use with square holes.

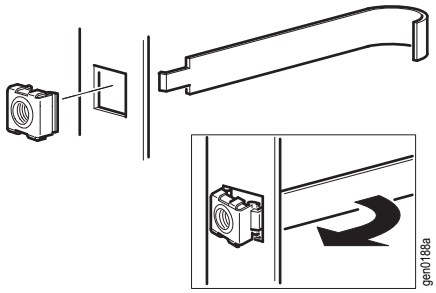
> **⚠ CAUTION**
>
> **FALLING EQUIPMENT HAZARD**
>
> Do NOT install cage nuts vertically with the ears engaging the top and bottom of the square hole.
>
> **Failure to follow these instructions can result in minor or moderate injury.**

- Install cage nuts horizontally, with the ears engaging the sides of the square hole.
- Install the cage nuts on the interior of the vertical mounting rail.



Installation:

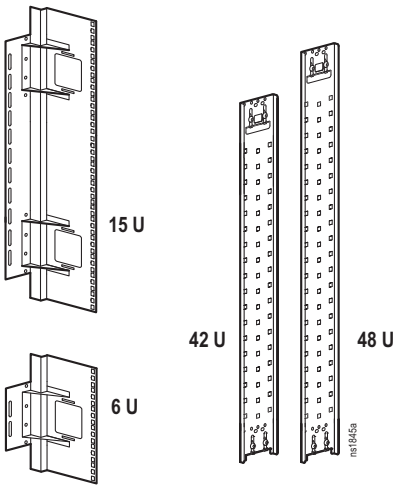
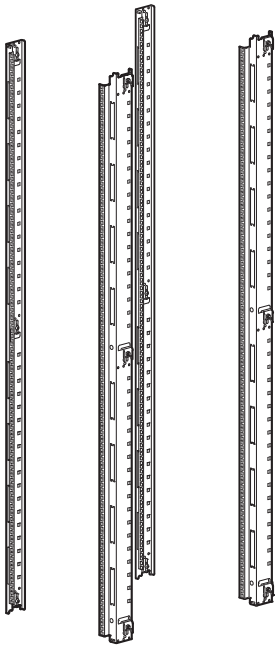
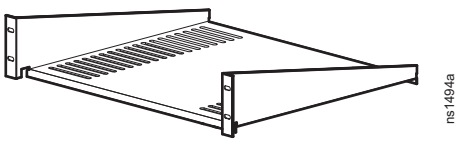
1. From inside of the cabinet, insert the cage nut into the square hole.
2. Hook one ear of the cage nut assembly through the far side of the hole.
3. Place the cage nut tool on the other side of the cage nut and pull to snap into position.



Removal:

1. Remove any attached screw.
2. Grasp the cage nut and squeeze the sides to release it from the square hole.

Equipment installation accessories (not provided)

Accessory	Part Number	Description	
Recessed rail kit	AR7508 (for a 42 U enclosure) AR7578 (for a 48 U enclosure)	Use the recessed rail kit to install equipment that has a different mounting depth from the other equipment in the enclosure.	
NetShelter SX 42 U, 23 in, EIA Mounting Rails	AR7510	For NetShelter SX Networking 42 U, 750 mm (29.53 in) wide enclosures (AR3140 and AR3340) only, the mounting rails accommodate 23 in rack mountable equipment.	
Fixed shelf 50 lb	AR8105BLK	Cantilever fixed shelf to enable the mounting of a monitor or other equipment into the rack environment or to allow cable pass-through from the front to rear of the enclosure.	

Completing the Installation

Airflow Management

NOTICE
EQUIPMENT DAMAGE HAZARD Improper airflow can damage installed components. Verify that the system provides the specified airflow for installed components. **Failure to follow these instructions can result in equipment damage.**

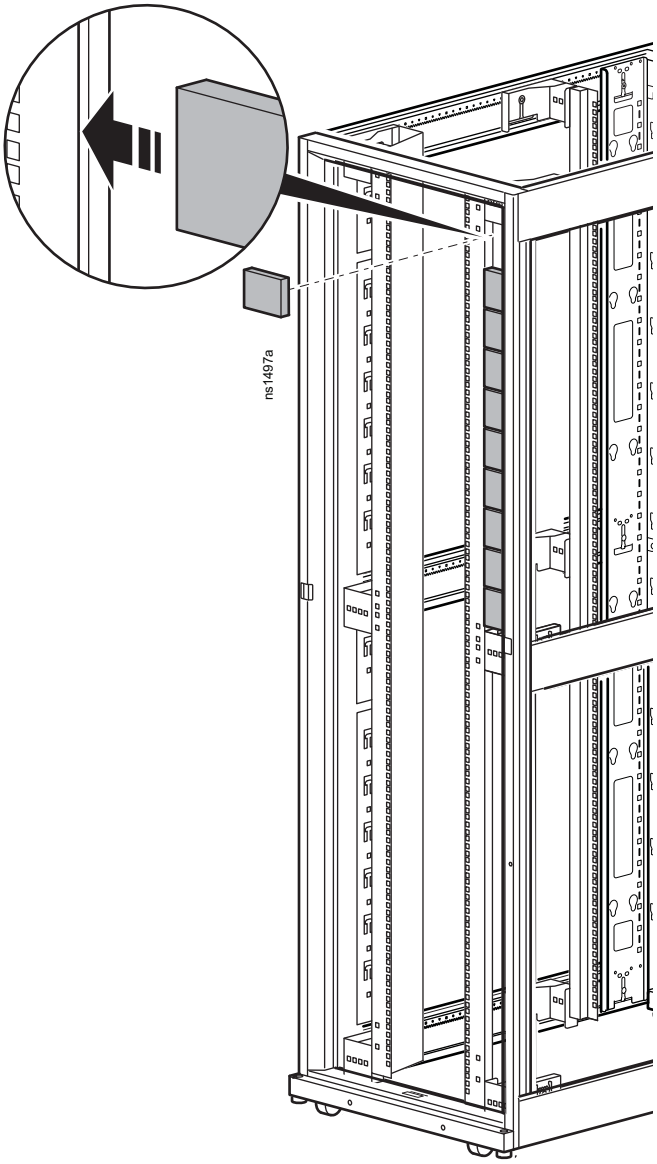
Foam airflow management panels assist in maintaining the required airflow. The panels install toollessly and direct airflow by covering empty vertical cabinet space.

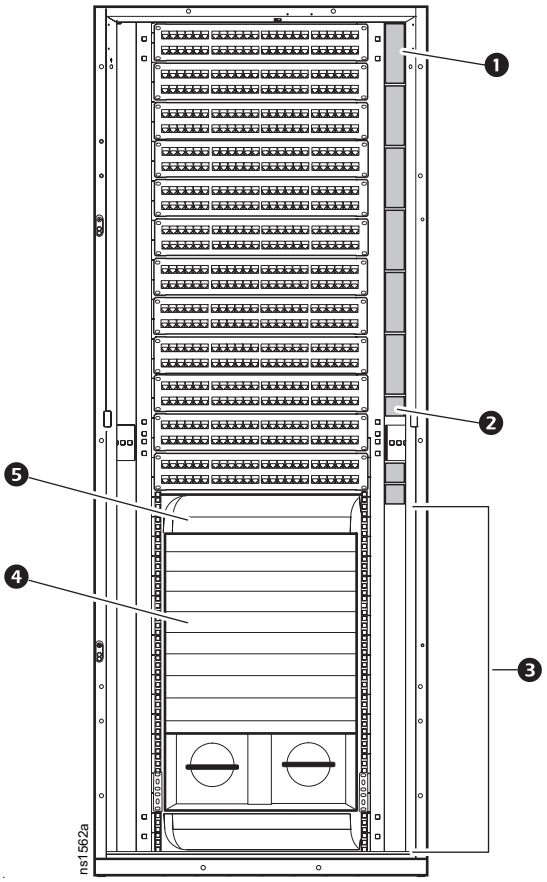
Foam Airflow Management Panel Installation

Install airflow management panels in the channel along the right vertical mounting rail next to inactive equipment such as patch panels, as seen below. 1 U ❷ and 3 U ❶ panels help isolate hot air and prevent it from entering the cold aisle. The left side of the cabinet does not require panels.

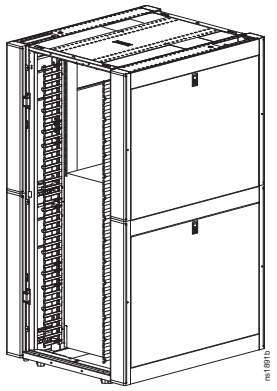
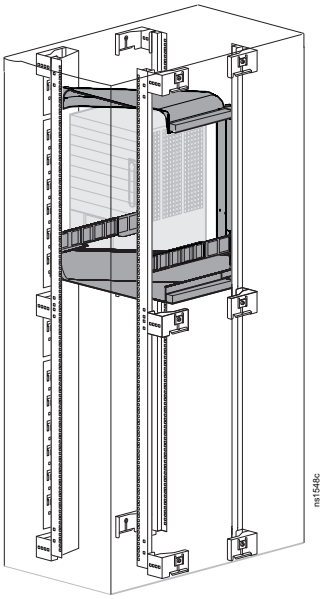
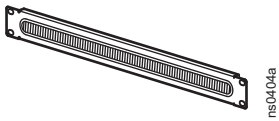
NOTES:

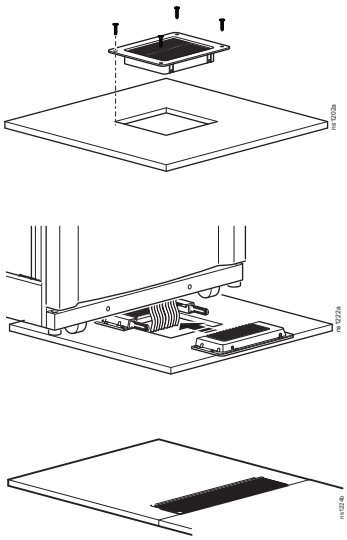
- The networking switch air intake areas ❸ and the side airflow duct kit inlets ❺ must remain unobstructed to ensure proper airflow into the networking switches ❹.
- Install the airflow management panels before installing any cabling.





Airflow management accessories (not provided)

Accessory	Part Number	Description	
NetShelter SX Side Airflow Solution Kit	Required for Cisco Nexus 7018 Switch (AR7742 & AR7747)	Installs onto the NetShelter SX 1200-mm Networking Cabinet (AR3340 or AR3347) and increases the width of the cabinet by 127 mm (5 in) on each side, providing the side-to-side airflow required by the switch. Internal baffles isolate hot and cold air in the cabinet.	
Side Airflow Duct Kit	AR7715	The NetShelter Side Airflow Duct Kit is intended for use with Cisco® Catalyst 6509, 6509-E, and 6513 Switches and Cisco MDS 9509 and 9513 Multilayer Switches. For networking switch applications, the Side Airflow Duct Kit allows for improved cable management solutions while maintaining adequate airflow and separation of hot and cold aisles to cool switches. The Side Airflow Duct Kit maintains separation of hot and cold aisles via ducts and baffle panels.	
Airflow Management Blanking Panel	AR8136BLK (Qty. 10) AR8136BLK200 (Qty. 200)	Covers an empty vertical enclosure space to maintain proper airflow.	
1 U horizontal cable organizer with brush strip	AR8429	19 in, 1 U cable pass-through assists with containing air in the cabinet and providing an aesthetic solution for cable routing.	

Accessory	Part Number	Description	
KoldLok® raised floor grommet	AR7720 (Qty. 10) AR7730 (Qty. 10) AR7740 (Qty. 10)	Designed to seal openings in new raised floor cutouts prior to the installation of communications or power cabling.	

Cable Routing and Cable Management

The NetShelter SX Networking Cabinet has cable access openings on its roof, sides, and bottom.

Four vertical cable managers and two Vertical 0 U accessory channels are included with the cabinet and offer a variety of other cable management accessories.

Vertical 0 U Accessory Channels

The vertical 0 U accessory channels provide toolless mounting capabilities for Rack Power Distribution Units (PDUs), cable containment brackets, and cable tie-off locations.

The factory-default position for the vertical 0 U accessory channels is in the rear of the cabinet.

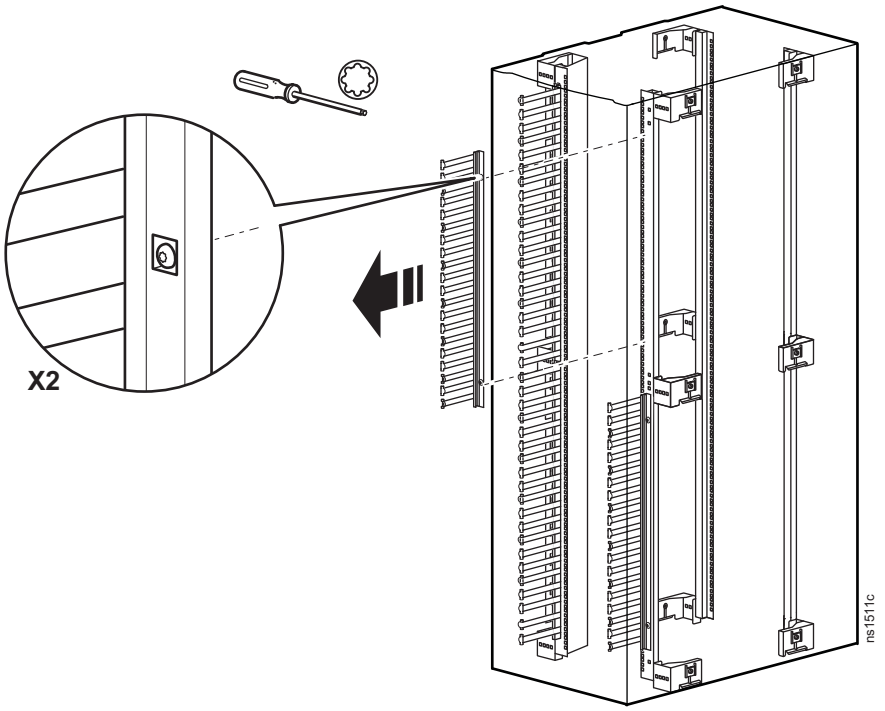
You can position the vertical accessory channels anywhere along the side braces or remove them completely. Adjustment is similar to adjusting the vertical mounting rails (see “Adjust the Vertical Mounting Rails” on page 18).

Additional vertical 0 U accessory channels are available for order.

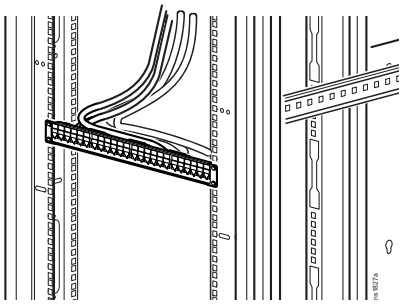
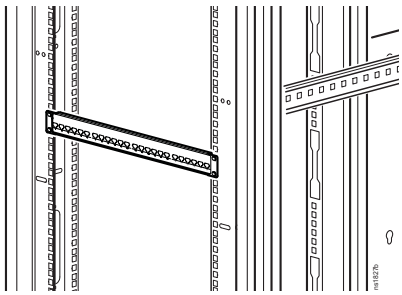
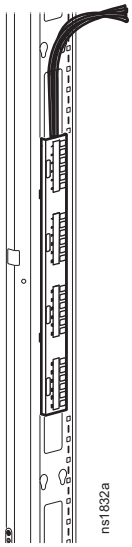
Vertical Cable Managers

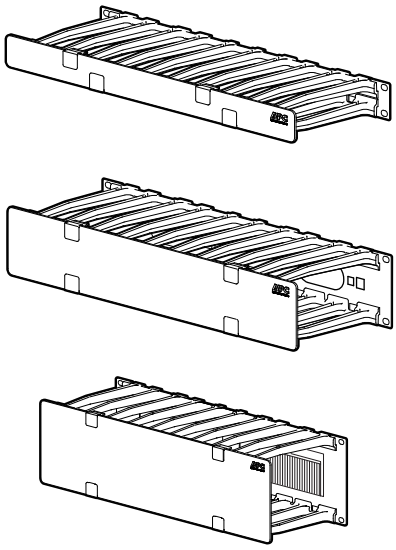
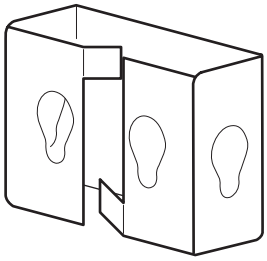
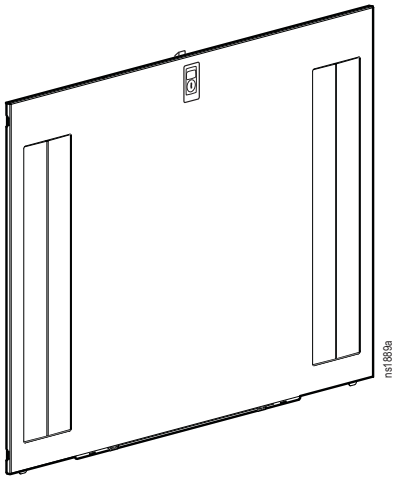
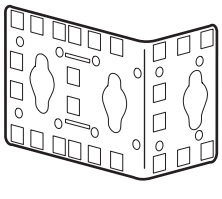
Remove vertical cable managers for cable routing purposes.

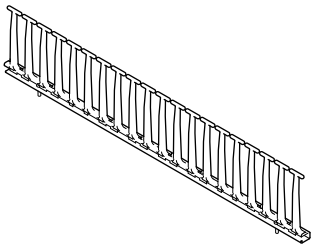
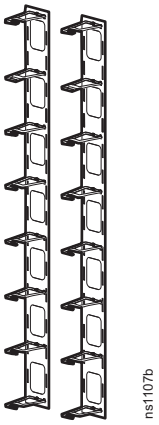
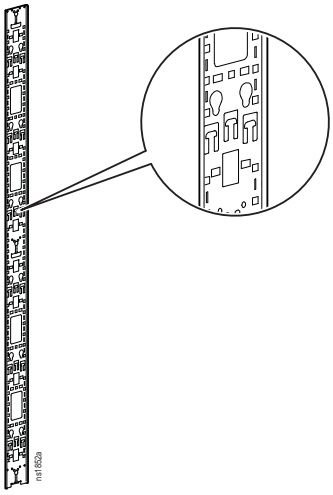
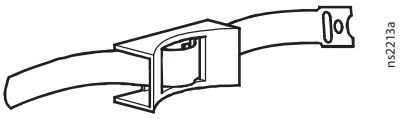
Re-install vertical cable managers on the vertical 0 U accessory channels.

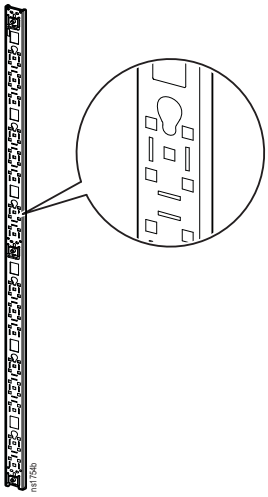
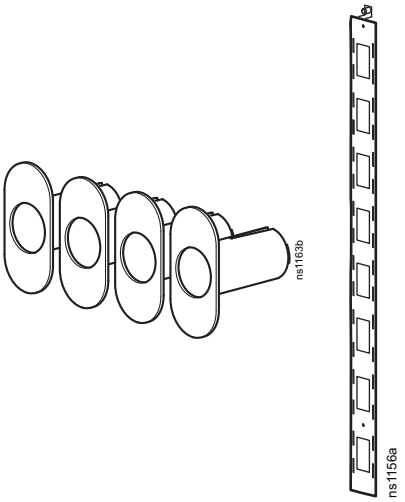
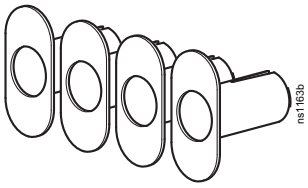


Cable management accessories (not provided)

Accessory	Part Number	Description	
1 U data distribution panel 2 U data distribution panel	AR8451 (shown) AR8452	Holds four data distribution cables, for a total of 24 ports. Holds eight data distribution cables, for a total of 48 ports.	
CAT 6 Patch Panel	CAT6PNL-24 (shown) CAT6PNL-48	24-port RJ45 to 110 568 A/B color-coded patch panel. 48-port RJ45 to 110 568 A/B color-coded patch panel.	
0 U data distribution panel	AR8457	Installs in a vertical 0 U accessory channel. Holds four data distribution cables, for a total of 24 ports.	

Accessory	Part Number	Description	
19 in horizontal cable organizers	AR8602A: 1 U, 4 in AR8612: 1 U, 6 in (shown) AR8600A: 2 U, 4 in AR8603A: 2 U, 6 in AR8606: 2 U, 6 in (shown) AR8605: 3 U, 6 in (shown)	Routes cables horizontally on the front or back of the 19 in EIA cabinet.	
Cable containment brackets (Qty. 6)	AR7710	Contains cables along the vertical 0 U accessory channel. Installs without tools.	
Side panel with access holes	AR7305A (Qty. 2)	For a NetShelter SX Networking 42U, 1 070 mm (42.13 in) deep enclosure (AR3140) only. Allows cable pass-through to adjacent enclosures. Openings contain brushes to restrict airflow.	
0 U accessory mounting bracket (Qty. 2)	AR7711	0 U, multi-purpose accessory mounting bracket for 1 U and 2 U equipment, including Rack PDUs.	

Accessory	Part Number	Description	
Vertical cable manager	AR7717A	For NetShelter SX Networking 42U enclosures (AR3140 and AR3340) only. Installs in the vertical mounting flanges and in the vertical 0 U accessory channels. The vertical cable manager has smooth plastic cable guides at 1 U increments to allow patch cords to enter and exit in an organized manner.	
Vertical cable organizer for NetShelter 0 U accessory channel	AR8442 (Qty. 2)	Eliminates cable stress by organizing cable layout within the rear channels of the enclosure. Uses 0 U space within the enclosure. Consists of two pieces of equal size. When stacked, both pieces span the entire height of the enclosure. Two pieces can be installed side by side in the vertical 0 U accessory channel. Can be used in any APC enclosure.	
NetShelter SX 42 U vertical cable organizer NetShelter SX 48 U vertical cable organizer	AR7502 (Qty. 2) AR7572 (Qty. 2)	Installs in the enclosure along the side braces. Provides toolless mounting capabilities for APC Rack Power Distribution Units (PDU) and APC cable containment brackets. Provides tie-off locations for cables.	
Toolless hook and loop cable managers (Qty. 10)	AR8621	Includes ten 457 mm (18 in) hook and loop black cable straps that install in the square holes in the vertical 0 U accessory channel or the vertical mounting rail.	

Accessory	Part Number	Description
NetShelter SX 42 U narrow vertical 0 U cable organizer	AR7511 (Qty. 2)	For NetShelter SX Networking 42U enclosures (AR3140 and AR3340) only. The narrow vertical 0 U accessory channel complements the standard vertical 0 U accessory channel by offering additional cable management options. The narrow channel can be used in the front of the enclosure to mount fiber cable spools and vertical cable managers or in the middle of the enclosure for cable tie off. In addition, keyholes are provided to mount one vertical Rack PDU per organizer. 
Vertical fiber organizer	AR8443A	The vertical fiber organizer provides a method to manage fiber cabling within a cabinet and mounts toollessly into the vertical 0 U accessory channel. 
Fiber organizer spools	AR8444 (Qty. 4)	Can be mounted toollessly to the vertical fiber organizer or a vertical 0 U accessory channel. 

Specifications

	AR3140	AR3340	AR3347
Height	1 991 mm (78.40 in)	1 991 mm (78.40 in)	2 258 mm (88.90 in)
Width	750 mm (29.53 in)	750 mm (29.53 in)	750 mm (29.53 in)
Depth	1 070 mm (42.13 in)	1 200 mm (47.24 in)	1 200 mm (47.24 in)
Net weight	155.95 kg (343.10 lb)	161.36 kg (355.00 lb)	185.45 kg (408.00 lb)
Total open area (front door)	788 972 mm^2 (1,222.91 in^2)	788 972 mm^2 (1,222.91 in^2)	900 417 mm^2 (1,395.65 in^2)
Total open area (rear door)	866 920 mm^2 (1,343.73 in^2)	866 920 mm^2 (1,343.73 in^2)	989 243 mm^2 (1,533.33 in^2)
Open area per U (front door)	18 787 mm^2 (29.12 in^2)	18 787 mm^2 (29.12 in^2)	18 787 mm^2 (29.12 in^2)
Open area per U (rear door)	20 645 mm^2 (32 in^2)	20 645 mm^2 (32 in^2)	20 645 mm^2 (32 in^2)
Perforation pattern percentage	69%	69%	69%
Percent of perforated area (front)	88%	88%	88%
Percent of perforated area (rear)	96%	96%	96%
Clearance (for wiring between front door and vertical mounting rail)	238.76 mm (9.40 in)	216.9 mm (8.5 in)	216.9 mm (8.5 in)
Weight rating: static load†	1 704.97 kg (3,750 lb)	1 704.97 kg (3,750 lb)	1 704.97 kg (3,750 lb)
Weight rating: rolling	1 020.58 kg (2,250 lb)	1 020.58 kg (2,250 lb)	1 020.58 kg (2,250 lb)

† Lower the leveling feet if the static weight is over 1 020.58 kg (2,250 lb).

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