



Hewlett Packard
Enterprise

Rack Options Installation Guide for the HPE Advanced G2 Series and HPE Enterprise G2 Series Racks

Abstract

This document provides guidance for installing rack options into the HPE Advanced G2 Series and HPE Enterprise G2 Series racks.

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About this guide

Rack options installation guide

This installation guide includes the instructions for installing rack option kits that are compatible with the HPE Advanced G2 Series and HPE Enterprise G2 Series racks.

For more information, see the *HPE Advanced G2 Series Racks User Guide* or the *HPE Enterprise G2 Series Racks User Guide* on the [Hewlett Packard Enterprise website](#).

Important safety information



WARNING: To reduce the risk of personal injury or damage to the equipment, be sure that:

- The front and rear leveling feet are extended to the floor.
- The full weight of the rack rests on the rear leveling feet and front stabilizer feet.



WARNING: To reduce the risk of personal injury or damage to the rack and equipment, position and secure the racks according to the instructions in this guide. Failure to do so could result in an unstable installation.



WARNING: Components can be very heavy. To reduce the risk of personal injury or damage to the equipment:

- Remove all pluggable power supplies and modules to reduce the weight of the product before lifting it.
- Observe local occupational health and safety requirements and guidelines for manual material handling.
- Get help to lift and stabilize the product during installation or removal, especially when the product is not fastened to the rails. When the component weighs more than 22.5 kg (50 lb), at least two people must lift the component into the rack together. If the component is loaded into the rack above chest level, a third person must assist in aligning the rails while the other two support the component.
- Use caution when installing the component in or removing the component from the rack; it is unstable when not fastened to the rails.

Rack options

Ordering rack options

Hewlett Packard Enterprise provides several rack option kits to complement or complete your rack solution. The following table lists the available rack option kits.

For information about ordering rack option kits, see the [Hewlett Packard Enterprise website](#), or contact your nearest authorized reseller.

HPE Advanced and Enterprise G2 Series racks

Rack option kit	Part number	Description
Airflow Optimization kit	BW930A	The Airflow Optimization kit improves rack airflow by preventing hot air recirculating to the front of the rack.
Ballast kit	120672-B21	The Ballast kit provides additional stability and support when heavy equipment is installed, removed, or accessed within the rack.
Baying kit, standard	P9L12A	The standard baying kit joins multiple racks of the same series, height, and depth. This kit comes standard with HPE Advanced G2 Series racks. To determine which baying kit to use for your rack pair, see HPE Rack baying kit options.
Cable Management D-ring kit	Q9V02A	This kit allows cables to be routed and organized within the rack. This kit consists of 10x D-rings.
Cable Management Combo kit	Q9V03A	This kit enables you to manage your cable configurations. This kit includes 1U and 2U front cable entry panels, 2x cable brackets, 10x D-rings, 20x hook and loop straps (8 in and 12 in), and mounting hardware.
Cable Management Brush kits	A0C40A (1U) - or - A0C41A (2U)	The Cable Management Brush kits enable you to manage your cable configurations using either a 1U or 2U front cable entry panel with brush inserts (one of each is included with the Cable Management Combo kit).
Fan kit, roof mount	257413-B21 (110V) - or - 257414-B21 (220V)	The Roof Mount fan kit enhances natural convection cooling within the rack.

Table Continued



Rack option kit	Part number	Description
Filler Panel kit	BW928A (10pk)	This kit ensures proper airflow within the rack.
	– or – BW929A (100pk)	
Fixed Rail kit, depth adjustable	332558-B21	This kit contains two - 48.26cm (19 inches) to 78.74cm (31 inches) - depth adjustable rails that mount rack-mountable servers, storage boxes, and networking products in third-party racks. It also allows for most third-party rack-mountable products to be mounted in racks.
Grounding kit	P9L11A	This kit is used to reduce the level of electromagnetic emissions outside the rack. This kit includes 5x grounding straps (6 in and 14.5 in) and 8x grounding straps with connectors (6 in and 14.5 in).
Hardware kit	H6J85A	Mounting hardware kit
Hook-and-loop Cabling Strap Clip kit	379820-B21	Hook-and-loop Cabling Strap kits enable you to manage your cable configurations.
1/4 Turn Hook and Loop Cabling Strap kit	BW963A (10 PK)	Hook-and-loop Cabling Strap kits enable you to manage your cable configurations.
	– or – BW964A (100 PK)	
LED light kit	BW939A	The LED light kit allows you to add LED lighting to the rack.
Locking Drawer, 2U	361591-B21	This locking drawer can store instruction manuals, tools, or other items frequently used at the rack. This kit includes sliding rails and lock with keys.
Shelf kit, server/utility	253449-B21	The Server/utility shelf kit holds rack components inside of the rack.
Shelf kit, 100 Kilo Sliding	234672-B21	This kit enables easy access to various rack components.
Side Panel kit	P9L15A (42U, 1075mm)	The Side Panel kit provides enclosures for the sides of a rack.
	– or –	
	P9L16A (42U, 1200mm)	This kit comes standard with HPE Advanced G2 Series racks.
	– or –	
	P9L17A (48U, 1075mm)	
	– or –	
	P9L18A (48U, 1200mm)	

Table Continued

Rack option kit	Part number	Description
Stabilizer kit	BW932A (600mm) – or – BW933A (800mm)	Anti-tip stabilizer kits provide stability and support when equipment is installed, removed, or accessed within the rack. Heavy-duty stabilizer kits should be used when a single racked component exceeds 200lbs.
Stabilizer kit, heavy duty	BW961A (600mm)	Anti-tip stabilizer kits provide stability and support when equipment is installed, removed, or accessed within the rack. Heavy-duty stabilizer kits should be used when a single racked component exceeds 200lbs. This kit is only available for 600mm wide racks.
Tie Down Kit	Q9V01A	This kit is used to secure the rack to the data center floor.

HPE Rack buying kit options

Not all buying kits fit with all racks. Use the image below to determine which buying kit to use based on how the racks are set up in your data center.

Rack Models		10K G3, 11K G2, Intelligent, Advanced G1, Enterprise G1						Advanced G2 & Enterprise G2			
	Rack Sizes	42U X 1000mm	42U X 1075mm	42U X 1200mm	47U X 1075mm	47U X 1200mm	48U X 1075mm	42U X 1075mm	42U X 1200mm	48U X 1075mm	48U X 1200mm
10K G3, 11K G2, Intelligent, Advanced G1 & Enterprise G1	42U X 1000mm	P9L12A	BW952A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	42U X 1075mm	BW952A	P9L12A	BW941A	N/A	N/A	N/A	P9L12A	N/A	N/A	N/A
	42U X 1200mm	N/A	BW941A	P9L12A	N/A	N/A	N/A	BW941A	P9L12A	N/A	N/A
	47U X 1075mm	N/A	N/A	N/A	P9L12A	N/A	N/A	N/A	N/A	N/A	N/A
	47U X 1200mm	N/A	N/A	N/A	N/A	P9L12A	N/A	N/A	N/A	N/A	N/A
	48U X 1075mm	N/A	N/A	N/A	N/A	N/A	P9L12A	N/A	N/A	P9L12A	N/A
Advanced G2 & Enterprise G2	42U X 1075mm	N/A	P9L12A	BW941A	N/A	N/A	N/A	P9L12A	N/A	N/A	N/A
	42U X 1200mm	N/A	N/A	P9L12A	N/A	N/A	N/A	N/A	P9L12A	N/A	N/A
	48U X 1075mm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	P9L12A	N/A
	48U X 1200mm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	P9L12A

Airflow Optimization kit

Kit overview

The Airflow Optimization kit enables you to install foam rail gaskets in your 36U, 42U, and 48U 600-mm (24-in) wide racks and 48U 800-mm (31-in) wide racks to improve separation between hot and cold aisles in the data center.

Kit contents (BW930A)

Item	Quantity
Foam rail gasket roll	4
600-mm (24-in) perforated floor gasket	1
—or—	
800-mm (31-in) perforated floor gasket	

Extra hardware might be included for your convenience.

Required tools (airflow optimization kit)

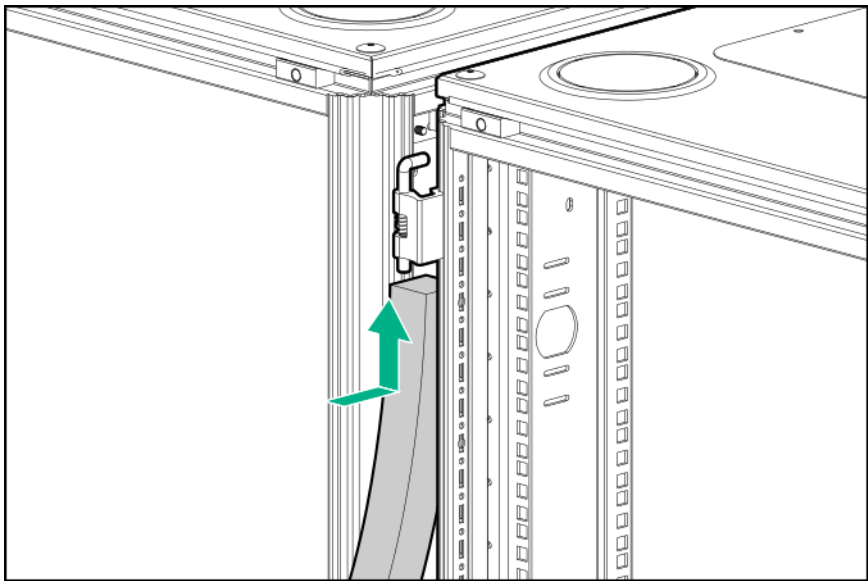
The following tools are required for installation:

Knife or scissors

Installing foam rail gaskets between racks

Procedure

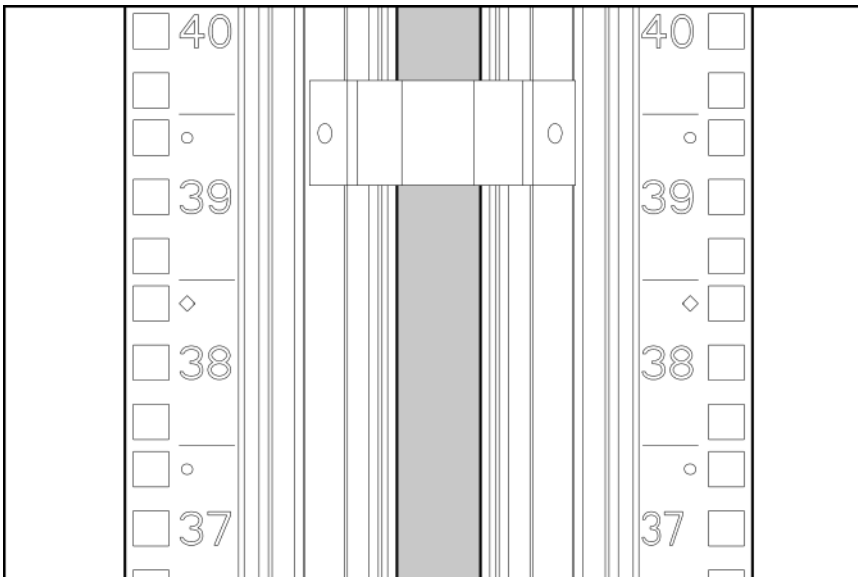
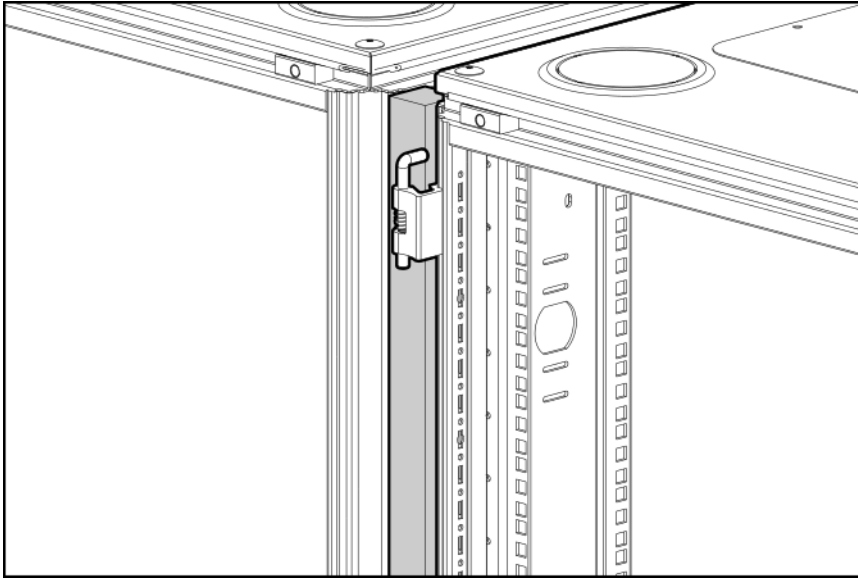
1. Cut the foam rail gasket to fit the size of your rack.
2. Insert the foam rail gasket between the racks. Ensure that the closed cell side of the gasket faces the front of the rack.



NOTE: If the racks have a baying kit installed, remove the baying bracket before inserting the foam rail gasket. Follow steps 1 through 2 to install the foam rail gasket into a rack that will be bayed using a 24-in. baying bracket.

If the rack uses a 600-mm baying bracket, rotate the foam rail gasket 90 degrees before inserting it into the space between the racks.

3. Gently push the foam rail gasket into the space between the racks until it is flush with the vertical frame.



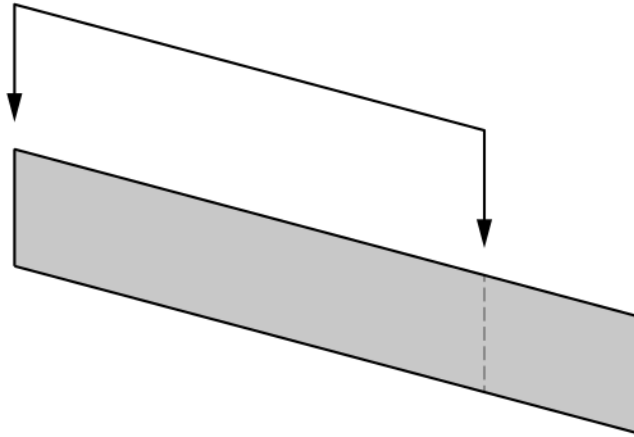
CAUTION: The foam rail gasket must be installed into the rack before racks can be bayed together. For additional information on baying racks, see the [HPE Baying Rack Option Kit](#).



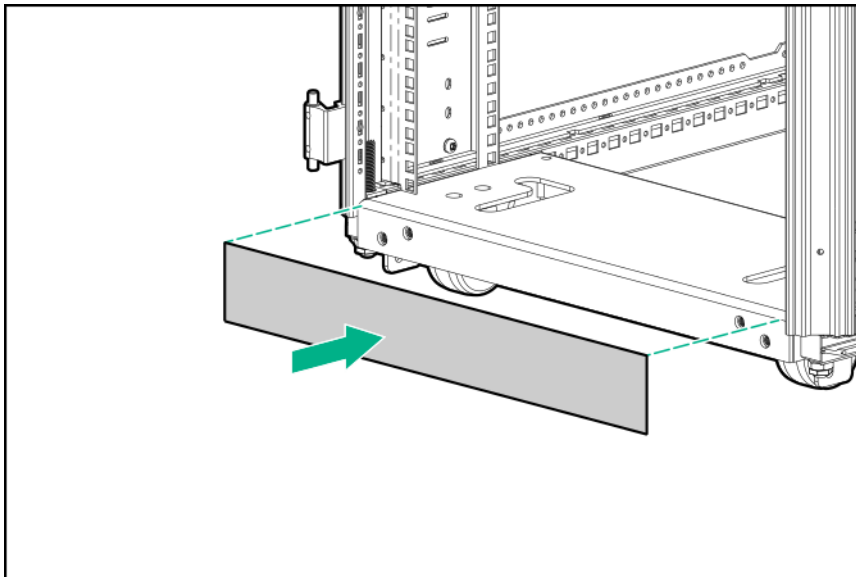
Installing the floor gasket

Procedure

1. Depending on the size of your rack, cut the floor gasket at the perforation to reduce the length from 800-mm (31 in) to 600-mm (24 in).



2. Remove the protective tape from the bottom edge of the floor gasket, and apply the gasket to the bottom of the rack with the adhesive strip facing the front of the rack.



Ballast kit

Kit overview

The Ballast kit provides additional stability and support when heavy equipment is installed, removed, or accessed within the rack.

Kit contents (120672-B21)

Item	Quantity
Ballast assembly	2
M6 screws	10
Cage nuts	10

Required tools (ballast kit)

The following tools are required for installation:

- Cage nut insertion tool
- T-25 Torx driver

Installing the ballast kit

Prerequisites

Ensure that the rack is empty of all equipment prior to installing the kit.

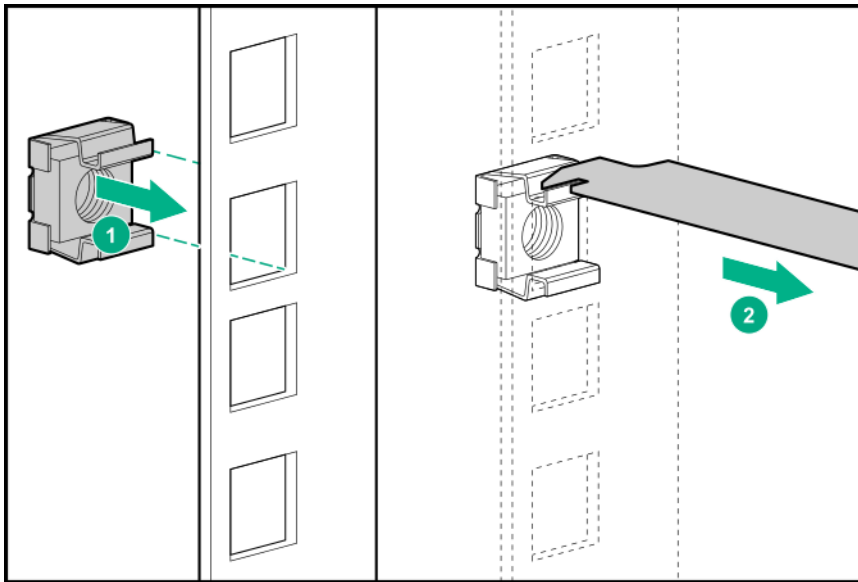
About this task

Install a single ballast assembly as close to the bottom of the rack as possible. If installing both ballast assemblies, install both assemblies as close to the bottom of the rack as possible.

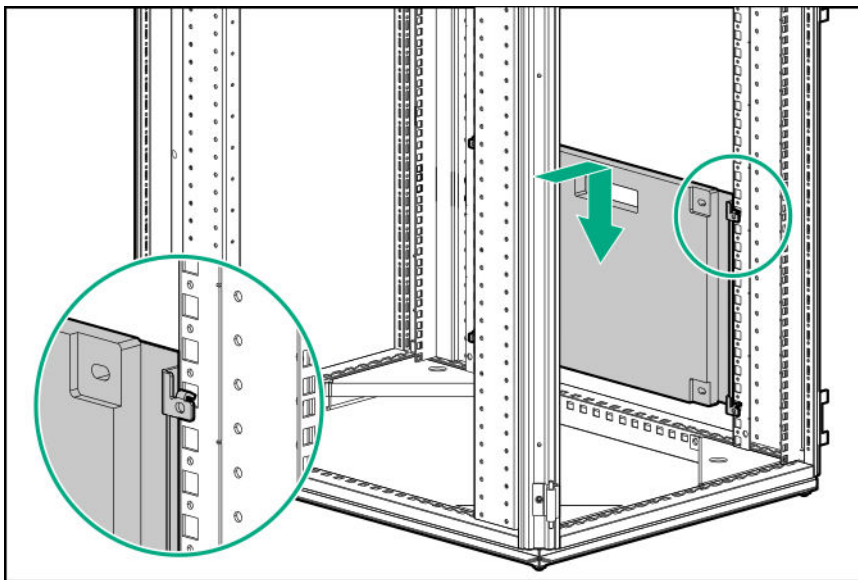
Procedure

1. Use a cage nut insertion tool to install the two bottom cage nuts.

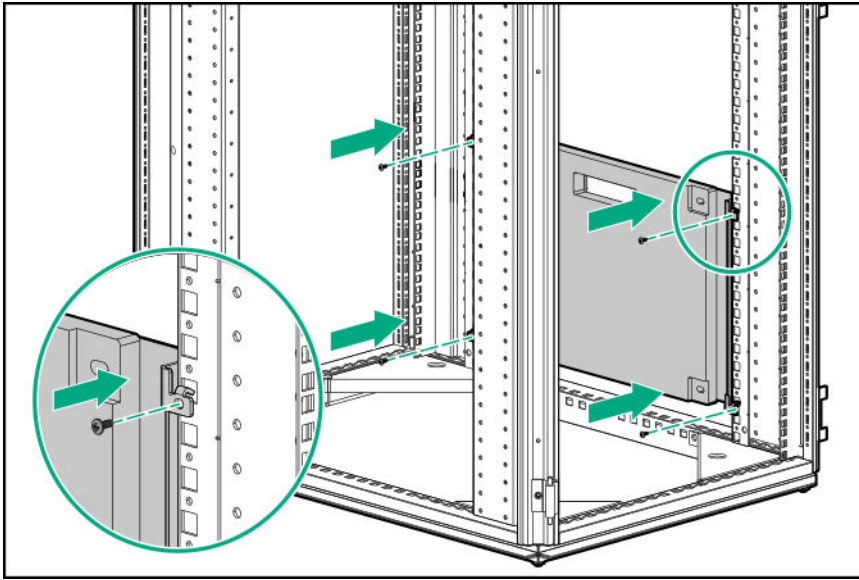




2. Count 16 holes up the rack, starting at the bottom cage nuts. Use the cage nut insertion tool to install the two top cage nuts.
3. Align the screw holes of the ballast assembly with the installed cage nuts.



4. Secure the assembly to the rack with M6 screws.



Baying kits

Baying kits allow you to connect multiple racks in your data center. For more information, see [HPE Rack baying kit options](#).

Standard baying kit

The Standard baying kit enables you to connect multiple racks of the same series, height, and depth. To determine which baying kit to use for your racks, see [HPE Rack baying kit options](#).

Kit contents (P9L12A)

Item	Quantity
24-inch baying brackets	4
600-mm baying brackets	4
T-30 Torx screws	9

Required tools

The following tools are required for installation:

T-30 Torx screwdriver

Installing the baying kit

About this task



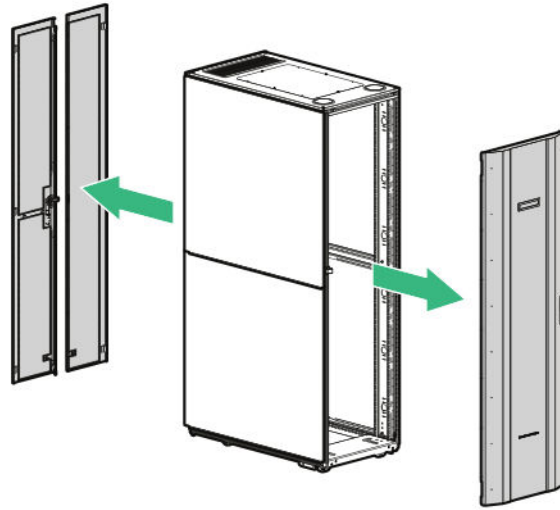
WARNING: To reduce the risk of personal injury or damage to the rack and equipment, position and secure the racks according to these instructions. Failure to do so could result in an unstable installation.

Procedure

1. Remove the front and rear doors.

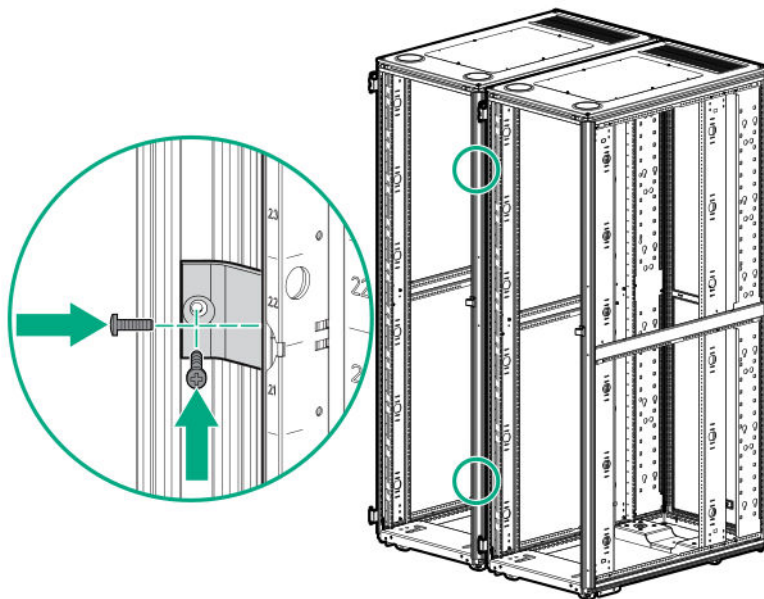
NOTE: The appearance of the rack might vary depending on the model of the rack purchased.





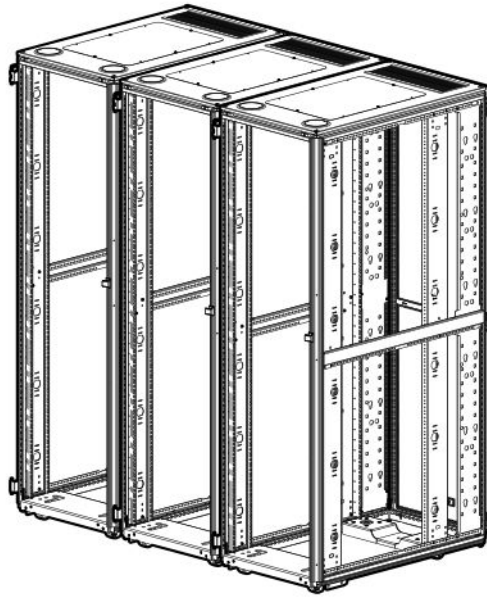
NOTE: If you are connecting an HPE Advanced or Enterprise G2 series rack to a 10K G3, 11K G2, Intelligent, Advanced G1, or Enterprise G1 rack, then you must also remove the side panels on the racks before baying them together.

2. Position the racks side by side, ensuring that the feet of the racks are on solid flooring (no cracks or openings).
3. Using two T-30 Torx screws in each bracket, attach two baying brackets (either 24-inch or 600-mm, depending on the floor layout) to the front and rear of each rack set.



4. Bay any additional racks.





5. Re-attach the front and rear doors.



Cable Management Combo kit

Kit overview

The Cable Management Combo kit assists with cable management and is designed for use with all racks.

Kit contents (Q9V03A)

Item	Quantity
1U cable management bracket	1
2U cable management bracket	1
Cable management D-ring bracket clips	10
Cable management D-ring bracket clamps	10
Cross-over brackets	2
30.0-cm (12-in) hook-and-loop cabling strap	10
20.3-cm (8-in) hook-and-loop cabling strap clips	10
M6 cage nuts	11
M6 x 16-mm Torx screws	11
M5.5-mm x 10-mm Torx screws	9
1/4 turn plastic latches	6

Required tools

The following tools are required for installation:

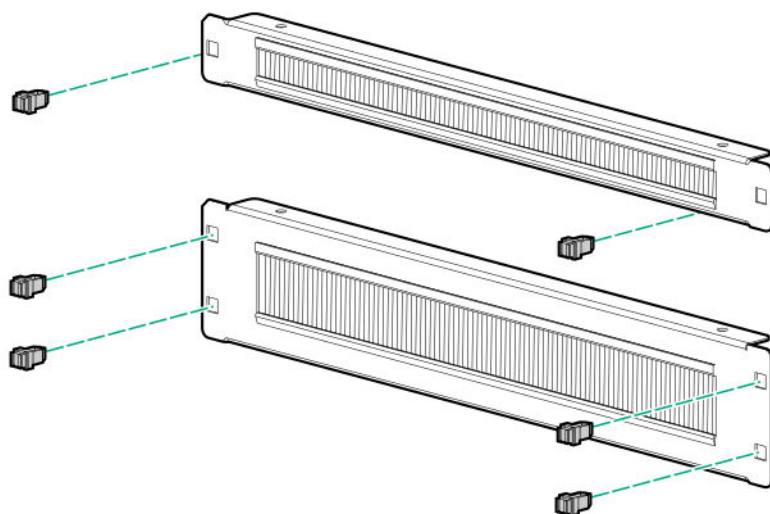
- T-25 Torx driver
- Cage nut insertion tool

Installing the 1U cable management bracket

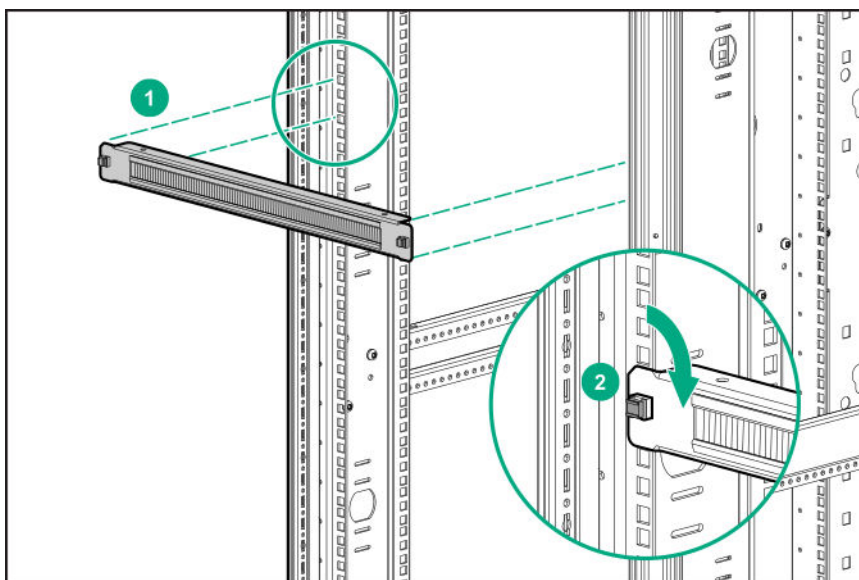
Procedure

1. Insert a 1/4 turn plastic latch in each side of the 1U cable management bracket.





2. Align the 1U cable management bracket to the screw holes in the rack (1).
3. Turn the plastic latch on each side of the 1U cable management bracket clockwise until it locks in place (2).

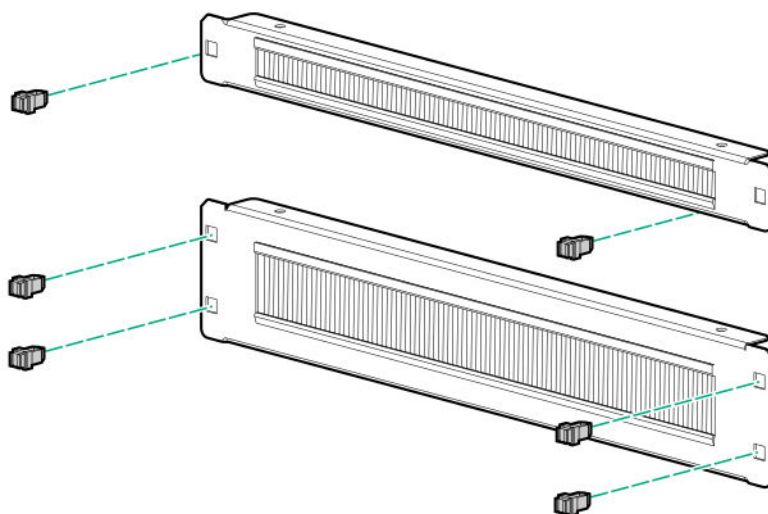


Installing the 2U cable management bracket

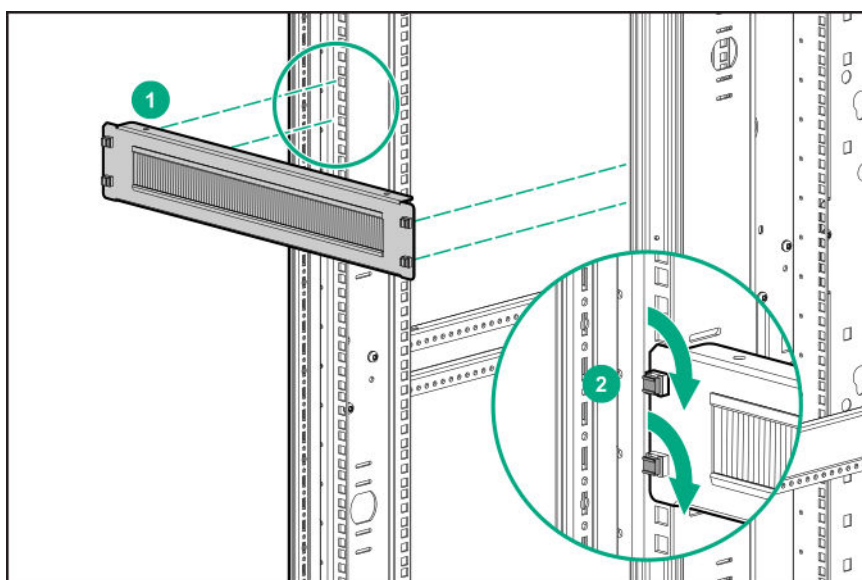
Procedure

1. Insert two 1/4 turn plastic latches in each side of the 2U cable management bracket.





2. Align the 2U cable management bracket to the screw holes in the rack (1).
3. Turn the plastic latches on each side of the 2U cable management bracket clockwise until they lock in place (2).



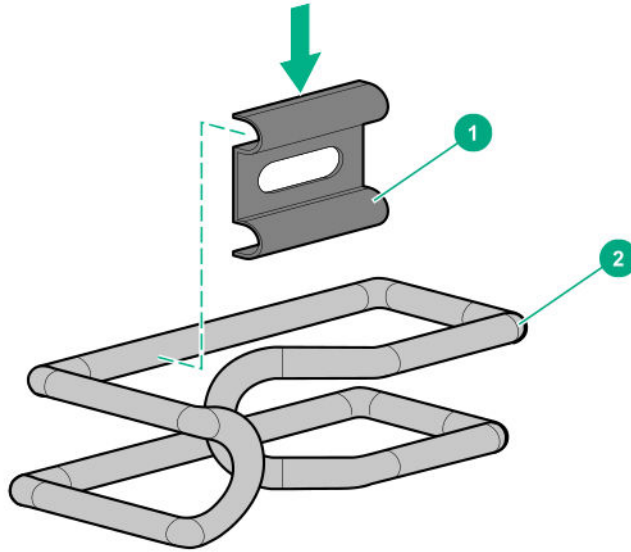
Installing the cable management D-ring bracket

About this task

Depending on your rack configuration, the cable management D-ring bracket can be installed in either a front mount or a side mount. Before installing the cable management D-ring bracket, complete the following step.

Place a cable management D-ring bracket clip (1) on a cable management D-ring bracket clamp (2).





Use one of the following procedures to install the cable management D-ring bracket.

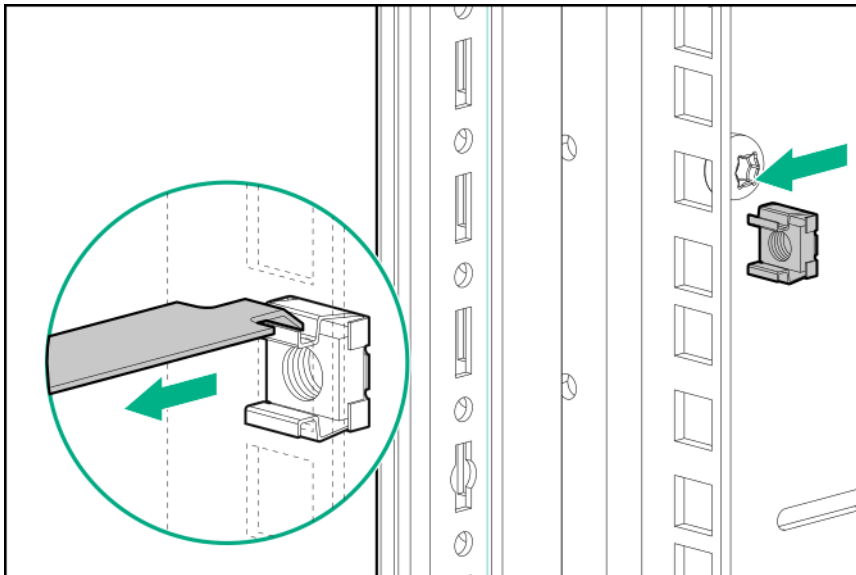
Procedure

1. **Installing the cable management D-ring bracket in a front mount.**
2. **Installing the cable management D-ring bracket in a side mount.**

Installing the cable management D-ring bracket in a front mount

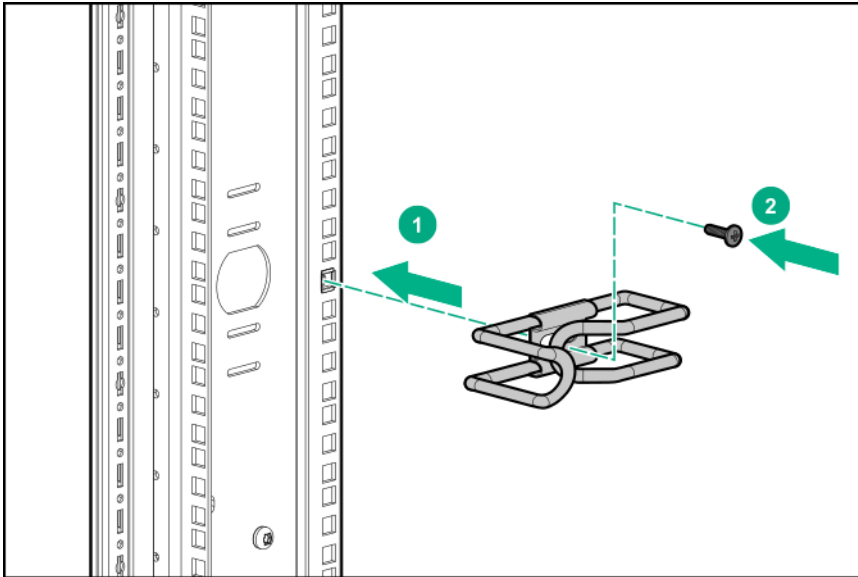
Procedure

1. Using a cage nut insertion tool, install an M6 cage nut to the desired location on the front of your rack.



2. Align the cable management D-ring bracket with the M6 cage nut (1).
3. Using a T-25 Torx driver, insert one M6 x 16-mm Torx screw to secure the cable management D-ring bracket to the rack (2).

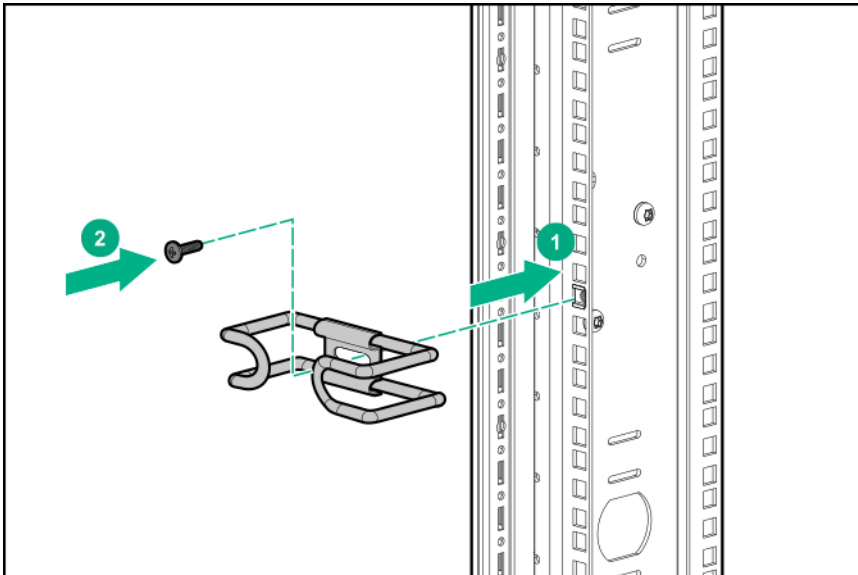




Installing the cable management D-ring bracket in a side mount

Procedure

1. Align the cable management D-ring bracket with the screw hole in the desired location on the side of your rack (1).
2. Using a T-25 Torx driver, insert one M5.5 x10-mm Torx screw to secure the cable management D-ring bracket to the rack (2).



Installing the cross-over bracket

Procedure

1. Align the cross-over bracket with the appropriate screw holes in the desired location across the back of the rack (1).

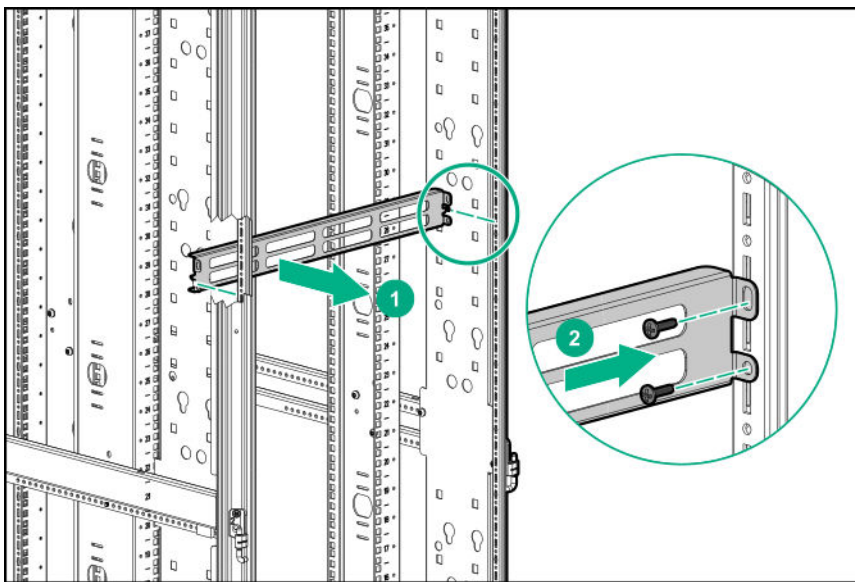


NOTE: The screw holes for the cross-over bracket are located on the side of the rear rack screw column, towards the inside of the rack.

NOTE: To avoid interference with the rear door lock, do not install in the following U range if the rear door will be closed.

Rack	Prohibited U heights
22U	07U~16U
36U	14U~23U
42U	16U~27U
48U	20U~29U

- Using a T-25 Torx driver, insert two M5.5 x 10-mm Torx screws on each side of the cross-over bracket and secure to the rack frame (2).

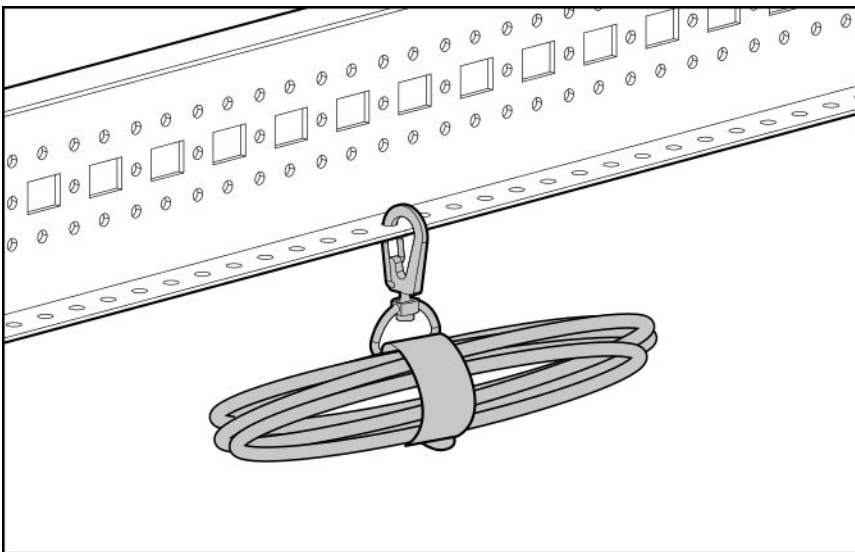
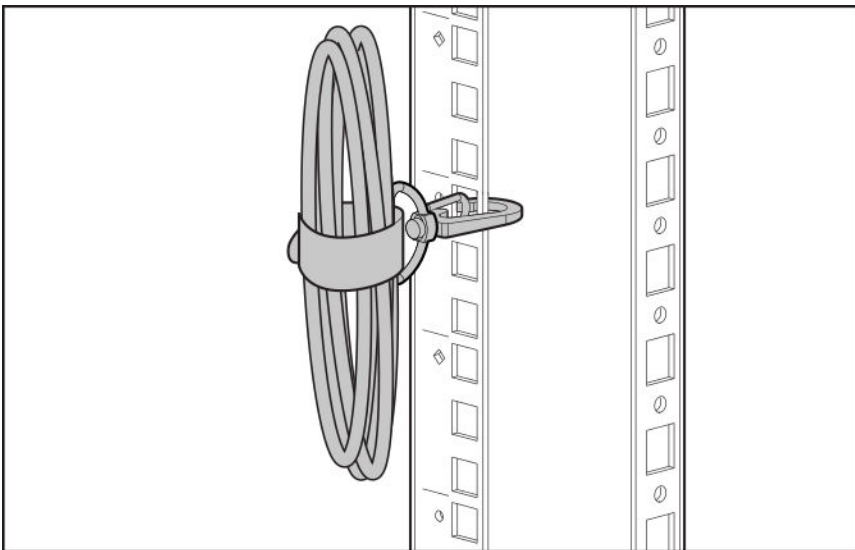
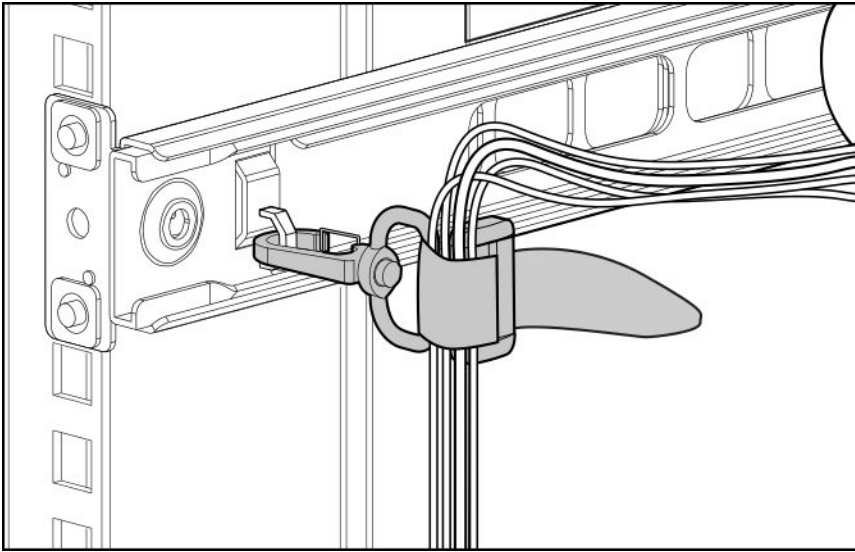


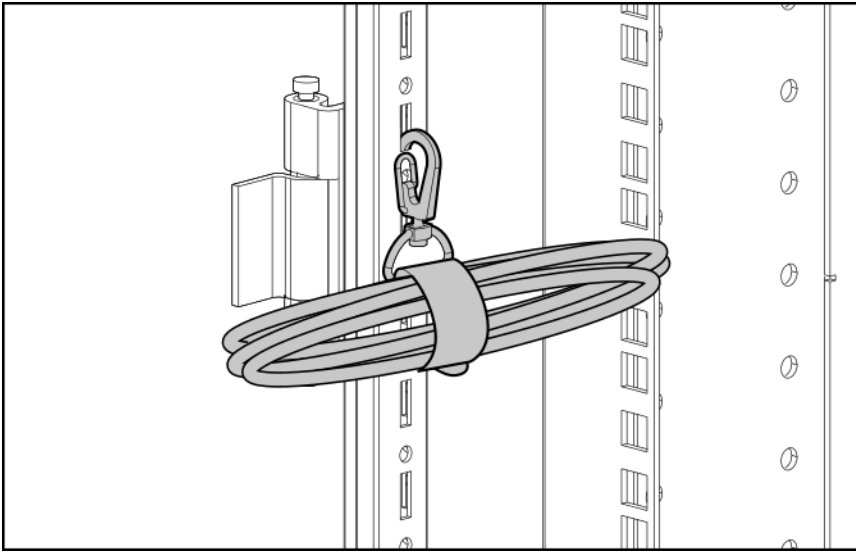
Installing the hook-and-loop cabling straps

About this task

Attach the clip to the rack in any of the following positions, then route and secure your cables with the hook-and-loop cabling straps.







Rack Roof Mount Fan kit

Kit overview

The HPE Rack Roof Mount Fan kit enhances the natural convection cooling by increasing rack airflow.

Kit contents (257413-B21, 257414-B21)

Item	Quantity
Fan assembly	1
Power cord	1
Cable fastener	4

Required tools

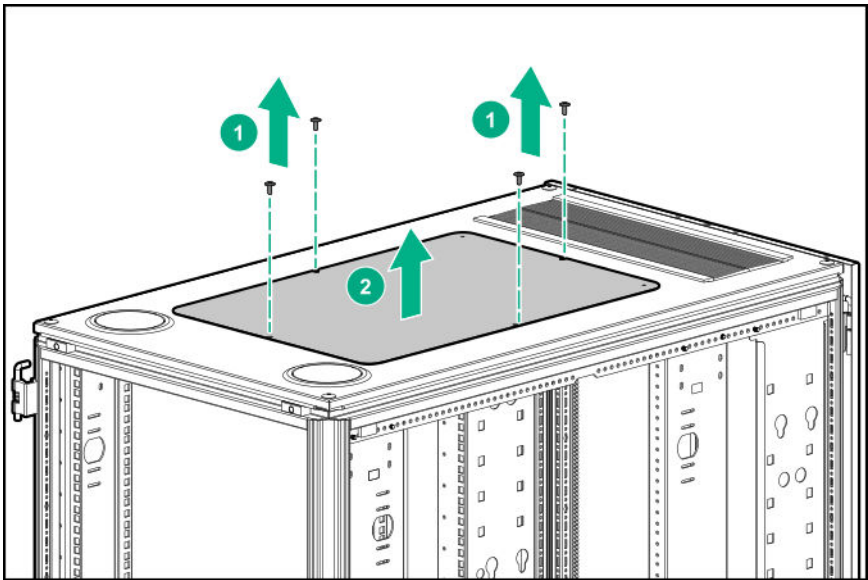
The following tools are required for installation:

T-30 Torx screwdriver

Installing the fan

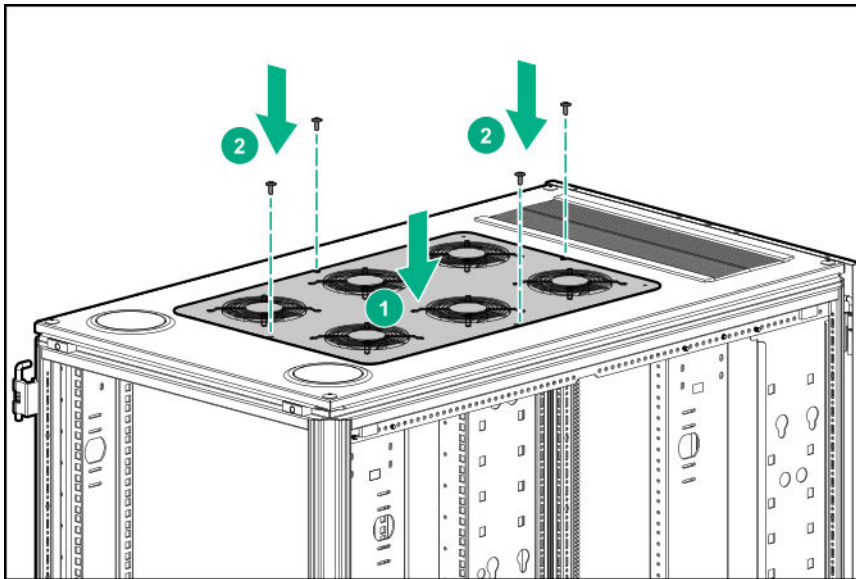
Procedure

1. Using a T-30 Torx driver, remove the four T-30 Torx screws securing the rack top cover to the rack and remove the rack top cover. Retain the screws.

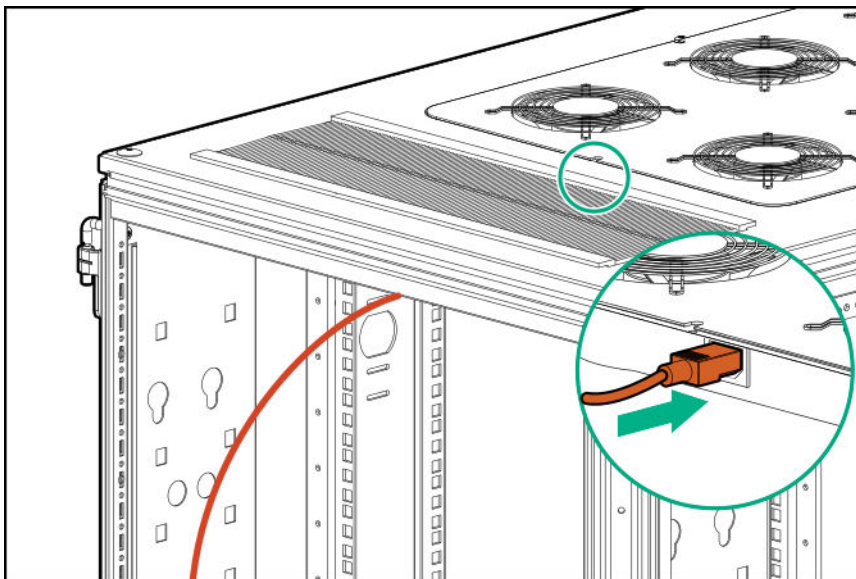


2. Align the fan assembly so that the power cord faces the rear of the rack
3. Insert the fan assembly into the top of the rack and secure it using the four T-30 Torx screws from step 1.



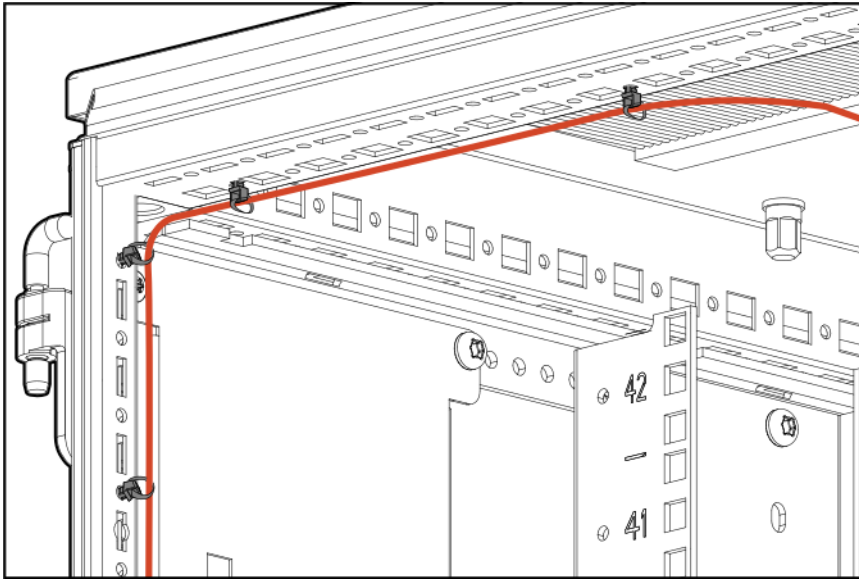


4. Connect the power cord to the fan assembly.



5. Insert the notched end of the tie wrap into a small hole in the rack rail and push the tie wrap in to lock it in place.
6. Encircle the power cord with the tie wrap by inserting the free end of the tie wrap into the hole on the other end of the tie wrap, pulling the tie wrap tight, and cutting off excess length.





Filler Panel kit

Kit overview

The Filler Panel kit enables you to cover open areas of the racks to better control airflow.

Kit contents (BW928A, BW929A)

Item	Quantity
1U Filler panels	10
—or—	
1U Filler panels	100

Required tools

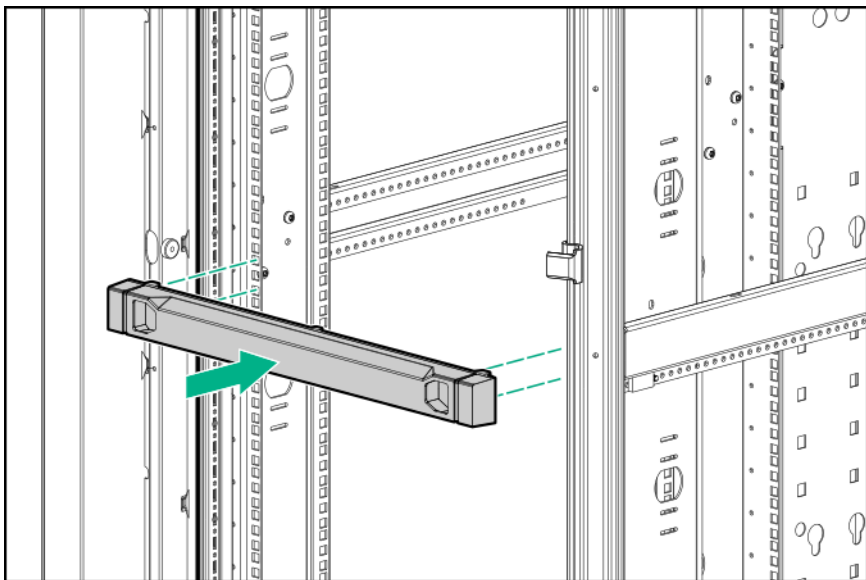
No tools are required for this procedure.

Installing the filler panel

Procedure

1. Position the filler panel in the desired rack location.
2. Snap the filler panel into place.

CAUTION: Always use filler panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without filler panels results in improper cooling, which can lead to thermal damage.



Fixed rail kit

Kit overview

This kit contains two - 48.26cm (19 inches) to 78.74cm (31 inches) - depth adjustable rails that mount rack-mountable products in third-party racks. It also allows for most third-party rack-mountable products to be mounted in racks.

Kit contents (332558-B21)

Item	Quantity
Rail, left	1
Rail, right	1
Rail, back	2
6M nut	4
M6 screw	10
Washer, M6 split	4
Washer, M6 flat	4
Cage nut	4

Additional hardware may be supplied for your convenience.

Required tools

The following tools are required for installation:

- Philips No. 1 screwdriver
- 10mm hex nut driver

Installing the fixed rail kit

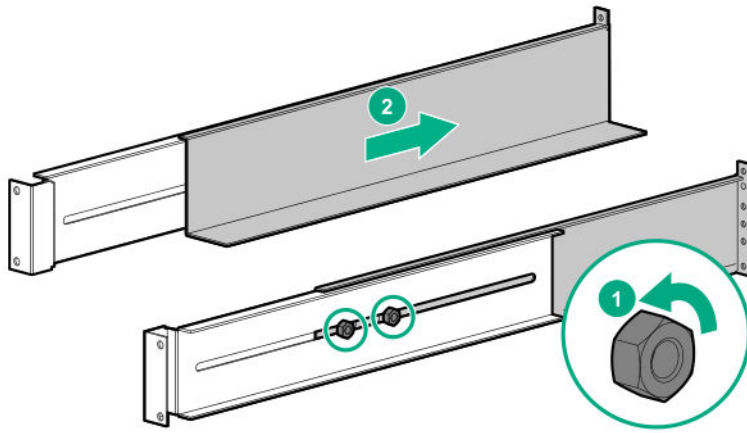
About this task

Warning: To reduce the risk of personal injury or damage to the equipment, be sure that:

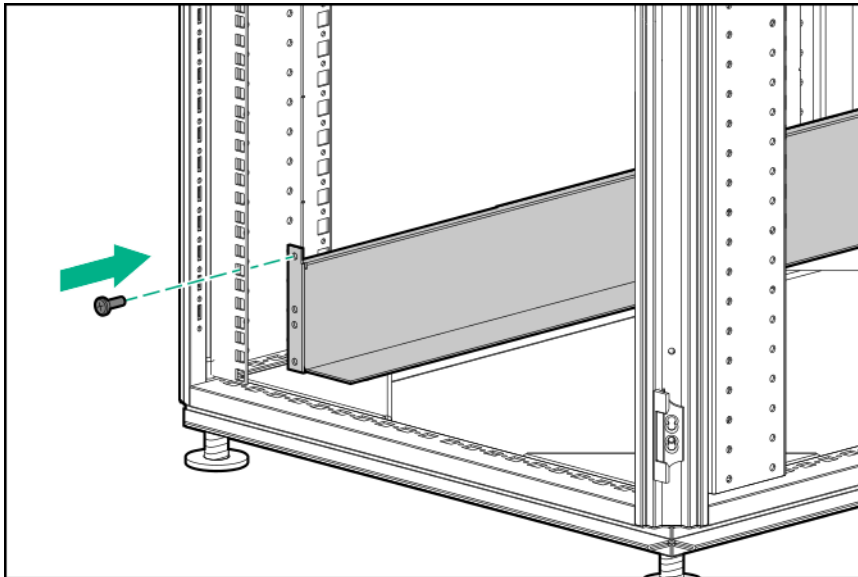
Procedure

1. Loosen the hex nuts, and extend the brackets to the desired length.

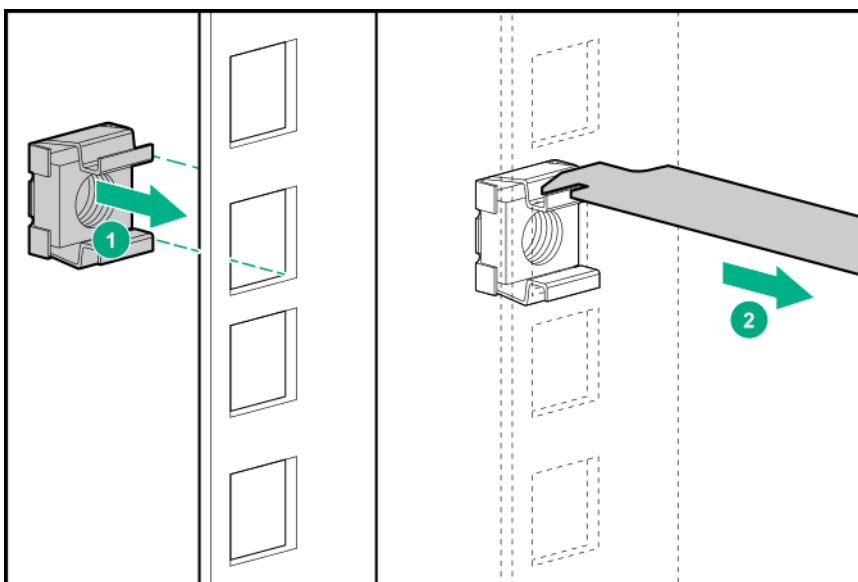




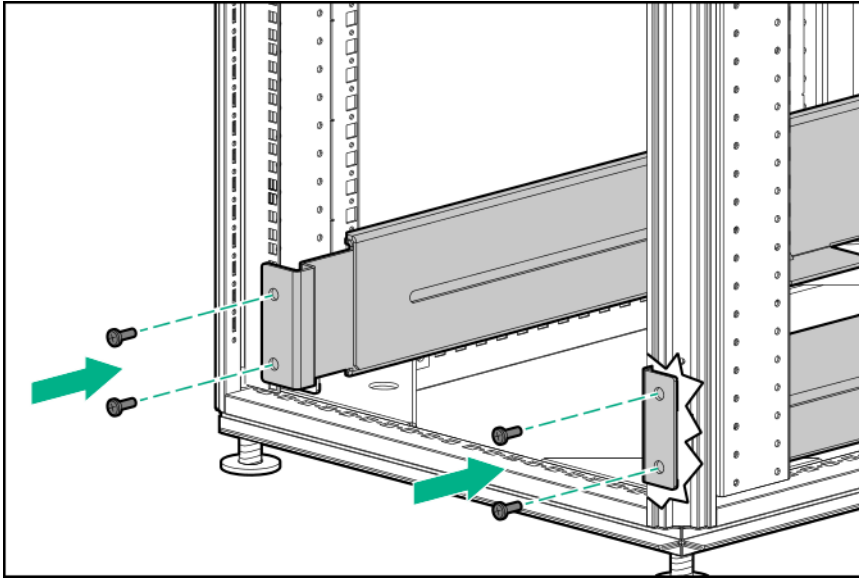
2. Insert screws through the rack into the mounting rail and the front of each mounting bracket.



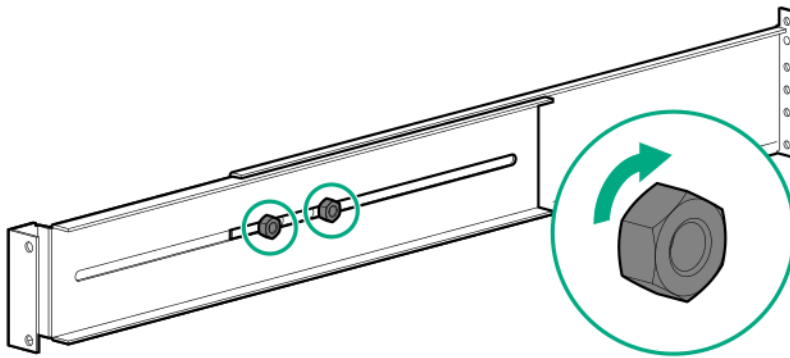
3. Install cage nuts or clip nuts into the rear of the rack.



4. Insert screws through the mounting rail into the cage nuts or clip nuts.



5. Tighten the hex nuts.



Warning: To reduce the risk of personal injury or damage to the equipment, be sure that:



WARNING: To reduce the risk of personal injury or damage to the equipment, be sure that:

- The rack has anti-tip measures in place. Such measures include floor-bolting, anti-tip feet, ballast, or a combination as specified by the rack manufacturer and applicable codes.
- The leveling jacks (feet) are extended to the floor.
- The full weight of the rack rests on the leveling jacks (feet).
- The stabilizing feet are attached to the rack if it is a single-rack installation.
- The racks are coupled together in multiple rack installations.

Ground Bonding kit

Kit overview

The Ground Bonding kit reduces the electromagnetic emissions outside of the racks. These emissions are produced during normal operation of the electronic components within the rack. Typically, rack-mounted equipment must meet class A emissions levels, but you might want to reduce these levels even further. Use this kit to tie all the conductive structural components together with conductive cables, and then attach the kit to a ground bonding point on the AC power distribution device of the rack or the building ground.

Kit contents (P9L11A)

Item	Quantity
15.24-cm (6-in) grounding straps	2
36.83-cm (14.5-in) grounding straps	3
15.24-cm (6-in) grounding straps (with a connector on one end)	4
36.83-cm (14.5-in) grounding straps (with a connector on one end)	4
M8 nut	8
Internal serrated lock washer	8
M8 x 20 hex head screw	1
Self-tapping 5.5 x 10 screw	8
6.2 Paint cutter washer	1
8.4 Paint cutter washer	1
M6 x 10 low HD cap screw	1

Required tools

The following tools are required for installation:

- T-25 Torx driver
- M8 socket

Installing the ground bonding kit

Procedure

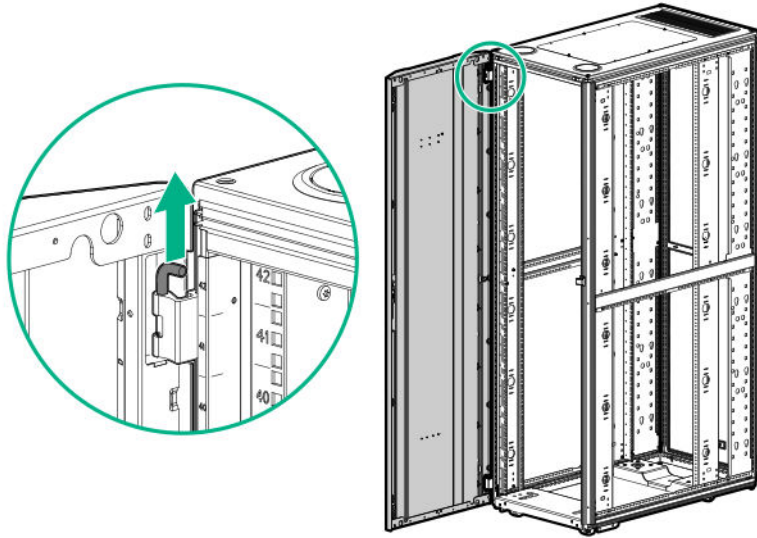
1. **Attach the appropriate grounding straps from the system chassis to the front door.**
2. **Attach the appropriate grounding straps from the system chassis rail to the rear doors.**
3. **Attach the appropriate grounding straps from the system chassis rail to the rack top.**
4. **Attach the appropriate grounding straps from the rack to a building facility.**



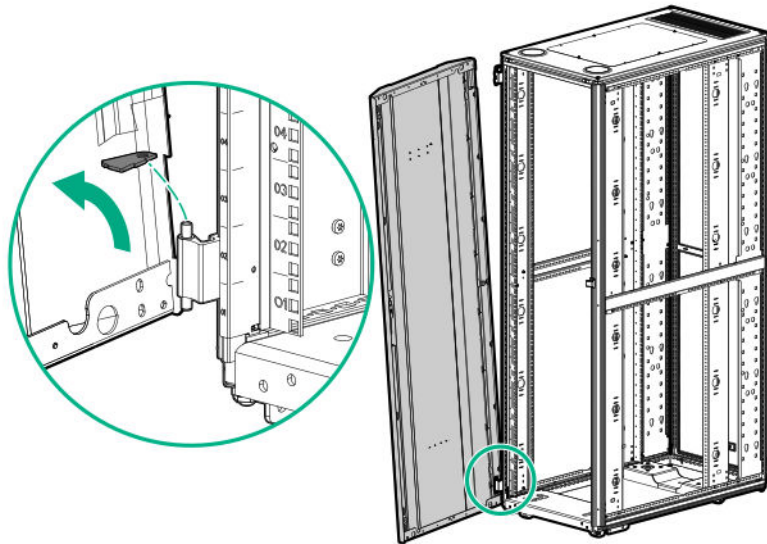
Attaching the grounding straps from the system chassis to the front door

Procedure

1. Remove the rack front door.
 - a. Unlock and open the front door.
 - b. Lift the top hinge pin up, and then tilt the door away from the rack.



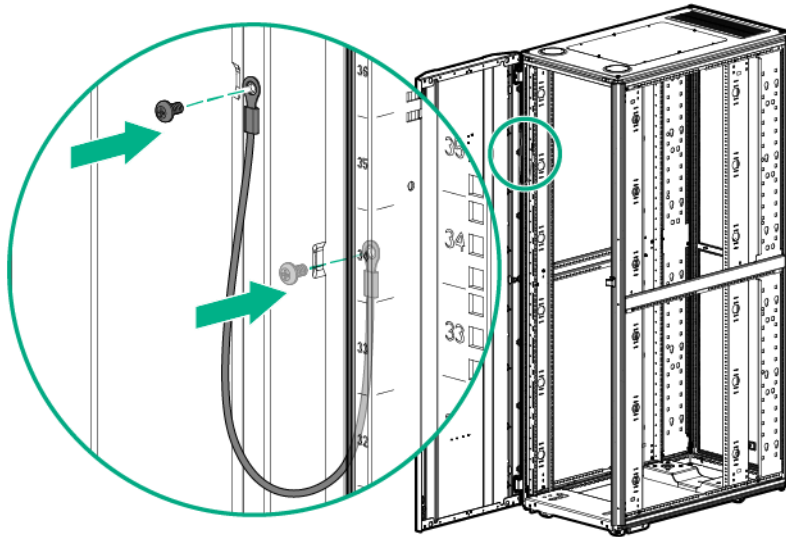
- c. Lift the door up and out of the bottom hinge.



2. Insert an M6 T-25 Torx screw through one end of a 15.24-cm (6-inch) grounding strap attached to the outside of the frame.
3. Insert the screw in the second hole below the upper front door hinge and tighten the screw.



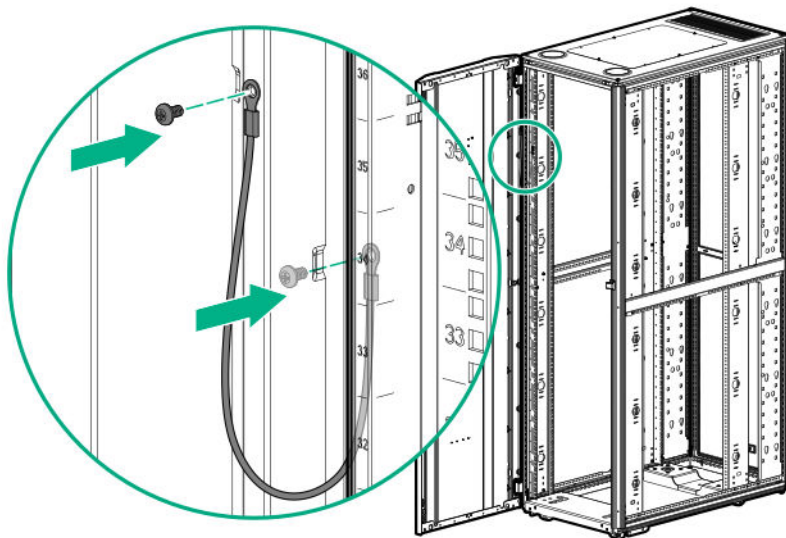
4. Install the rack front door.
5. Insert a T-25 Torx screw through the other end of the same grounding strap, and insert the screw in the hole on the rack front door. Tighten the screw.



Attaching the grounding straps to the front door with a grounding lug

Procedure

1. Insert a T-25 Torx screw through the other grounding strap end and secure it to the front door.
2. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the front door and tighten the washer.

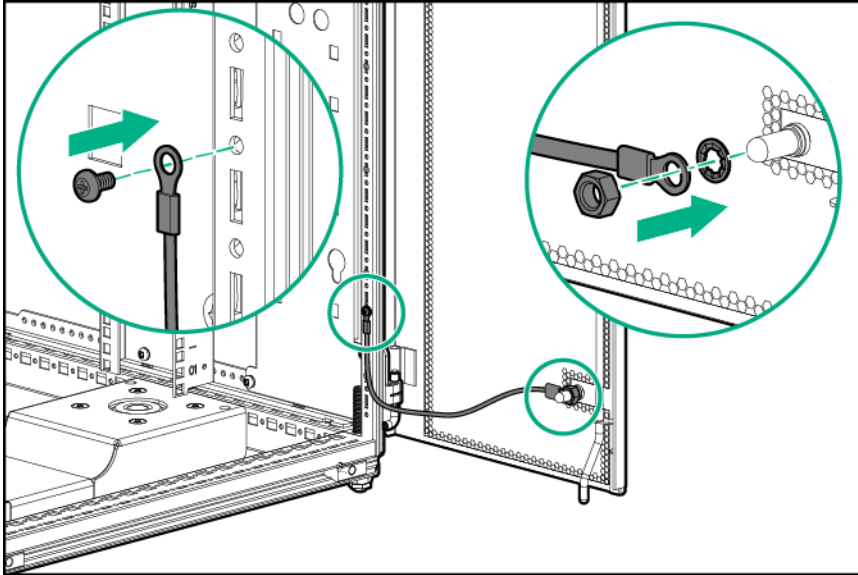


Attaching the grounding straps from the system chassis rail to the rear doors

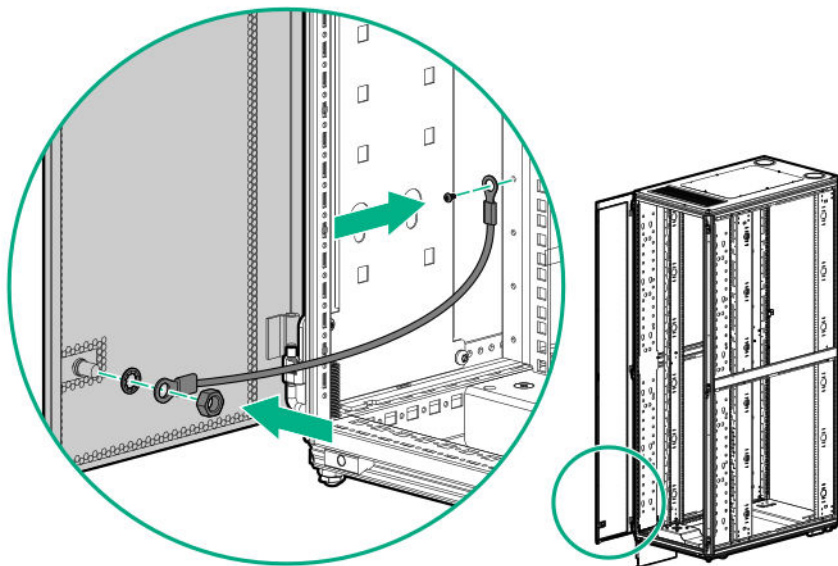
Procedure

1. Insert a T-25 Torx screw through the end of a 36.83-cm (14.5-inch) grounding strap, and then secure the screw to the system chassis rail.
2. Place the other end of the same grounding strap over the grounding lug on the right rear door.
3. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the right rear door, and then tighten the washer.

❗ **IMPORTANT:** The location of the welding stud on your model may vary.



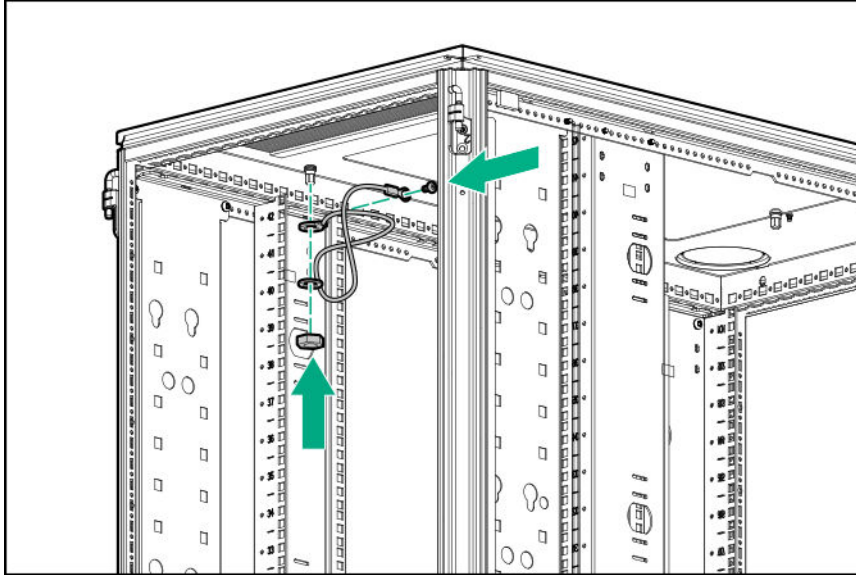
4. Repeat steps 1 through 3 for the left rear door.



Attaching the grounding straps from the system chassis rail to the rack top

Procedure

1. Insert a T-25 Torx screw through one end of a 15.24-cm (6-inch) grounding strap, and then secure the screw to the system chassis rail.
2. Place the other end of the same grounding strap over the grounding lug on the rack top.
3. Place one end of a 36.83-cm (14.5-inch) grounding strap over the grounding lug on the fan access panel.
4. Place the other end of the grounding strap over the grounding lug on the rack top.
5. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the rack top and tighten the washer.

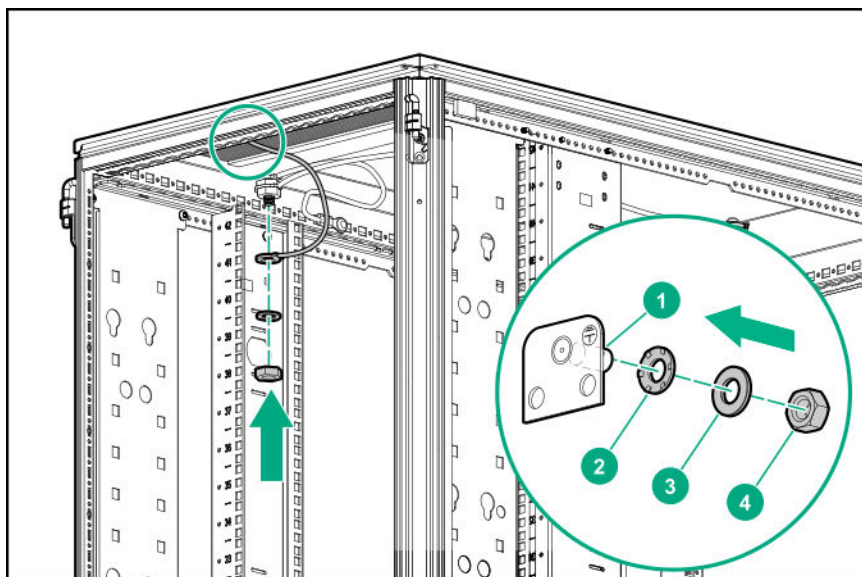


Attaching the grounding straps from the rack to a building facility

About this task

The following figure illustrates parts for this step. For more information, contact your building supervisor.





Reference	Item
1	Rack grounding lug
2	M8 Belleville toothed washer
3	M8 flat washer
4	M8 hex nut

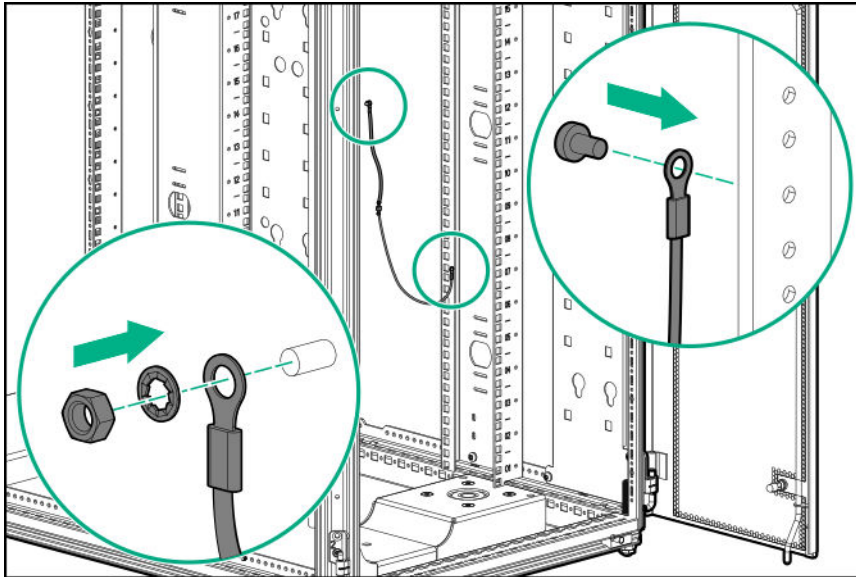
The rack grounding lug can be moved to any position on the top or bottom of the rack.

Installing the ground bonding kit on side panels

Procedure

1. Connect a 36.83-cm (14.5-inch) and a 15.24-cm (6-inch) grounding strap with connectors together.
2. Insert a T-25 Torx screw through the end of the 36.83-cm (14.5-inch) grounding strap and secure the screw to the middle system chassis rail.
3. Place the end of the 15.24-cm (6-inch) grounding strap over the grounding lug on the bottom side panel.
4. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the bottom side panel and tighten the washer.
5. Repeat steps 1 through 4 for the other bottom side panel.

ⓘ IMPORTANT: The location of the welding stud on your model may vary.



Installing the ground bonding kit to the top side panel

Procedure

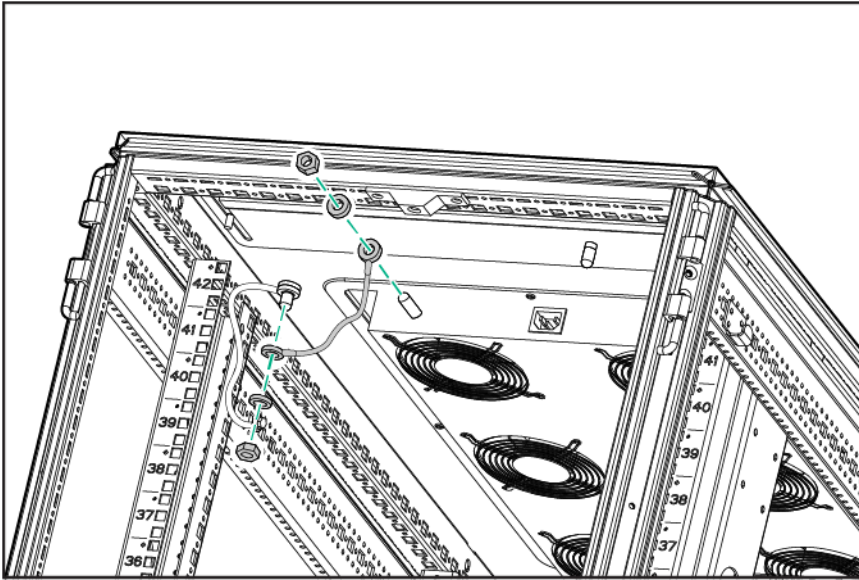
1. Connect a 36.83-cm (14.5-inch) and a 15.24-cm (6-inch) grounding strap with connectors together.
2. Insert a T-25 Torx screw through the end of a 36.83-cm (14.5-inch) grounding strap, and then secure the screw to the middle system chassis rail.
3. Place the end of the 15.24-cm (6-inch) grounding strap over the grounding lug on the top side panel.
4. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the top side panel, and then tighten the washer.
5. Repeat steps 1 through 4 for the other top side panel.

Installing the ground bonding kit on fan kits

Procedure

1. Place one end of a 15.24-cm (6-inch) grounding strap over the grounding lug on the rack top.
2. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the rack top. Then, tighten the washer.
3. Place the other end of the same grounding strap over the grounding lug on the perforated panel.
4. Place an M8 internal serrated lock washer and an M8 hex nut over the grounding lug on the perforated panel. Then, tighten the washer.





Hook-and-Loop Cabling Strap Clip kit

Kit overview

The Hook-and-Loop Cabling Strap Clip kit enables you to add hook-and-loop cabling strap clips to manage your cable configurations.

Kit contents (379820-B21)

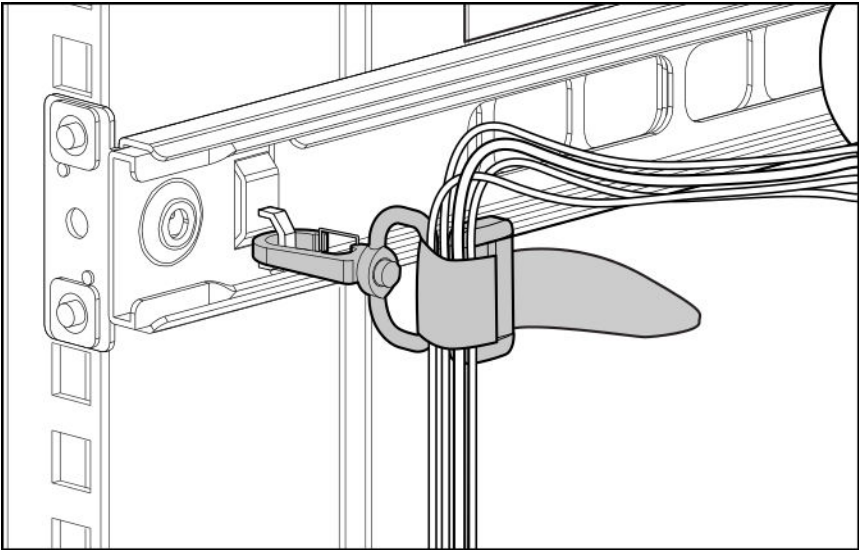
Item	Quantity
12.7-cm (5-in) hook-and-loop cabling strap clip	20
20.3-cm (8-in) hook-and-loop cabling strap clip	20
30.5-cm (12-in) hook-and-loop cabling strap clip	10

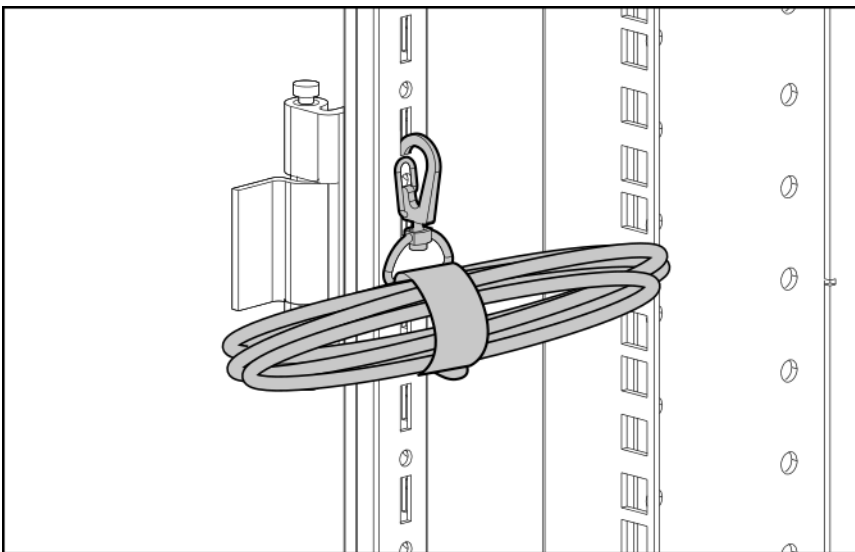
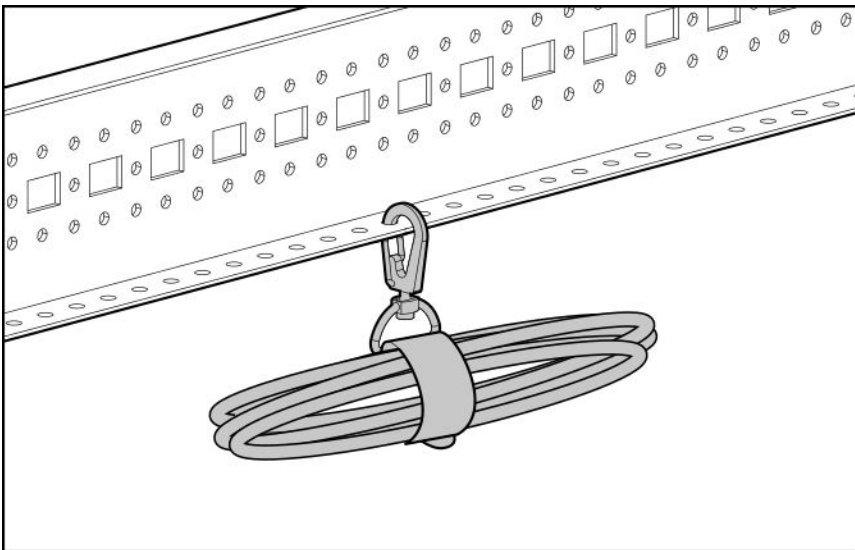
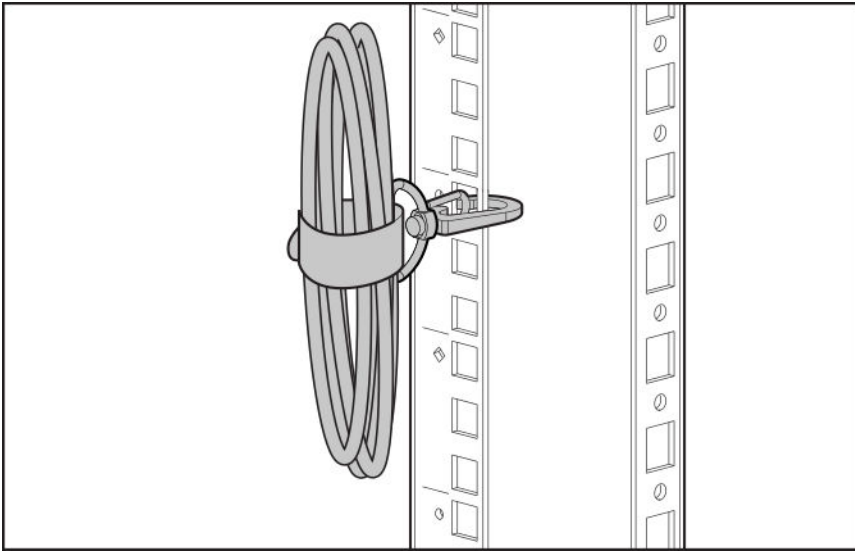
Required tools

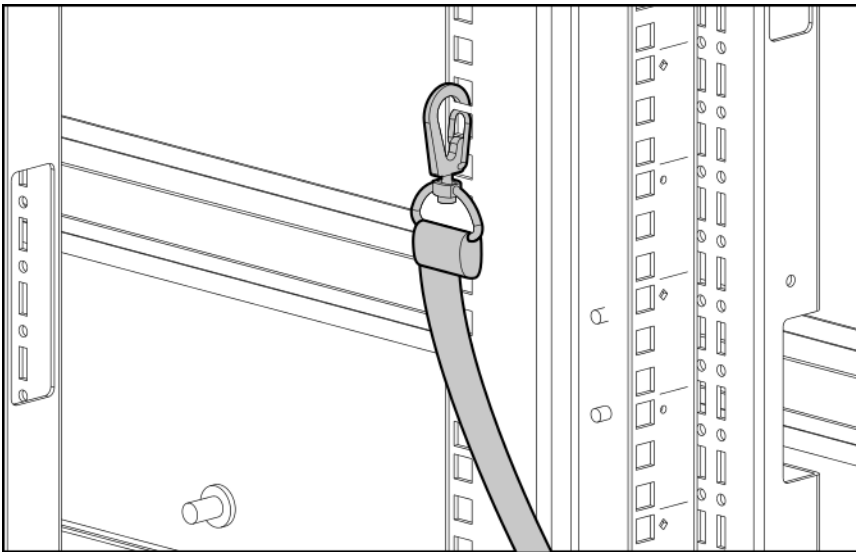
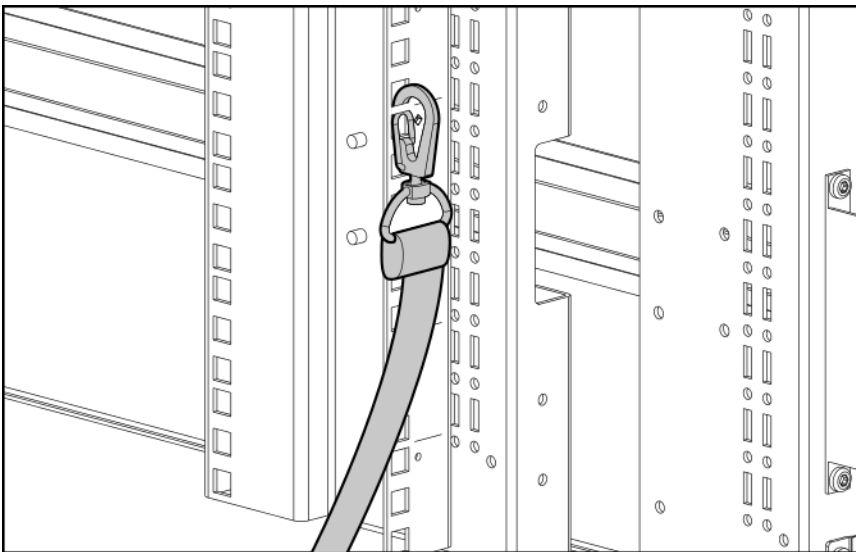
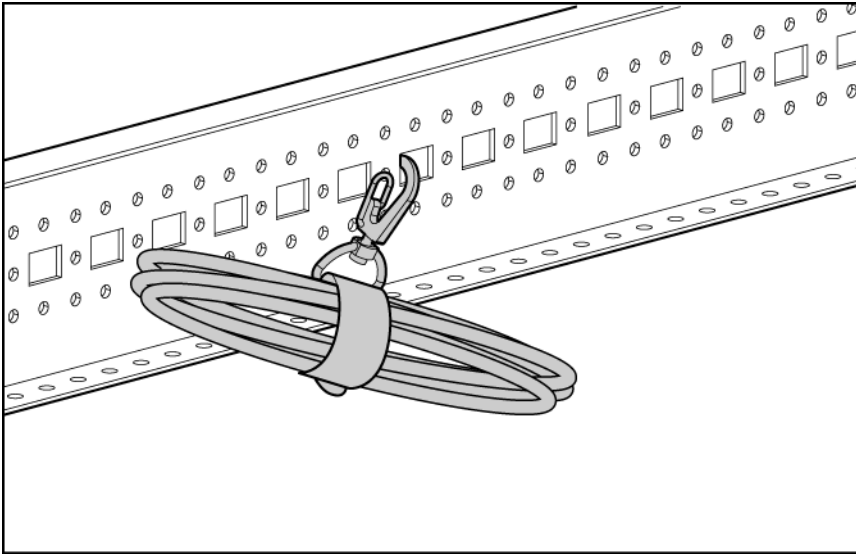
No tools are required for this procedure.

Installing the hook-and-loop cabling strap clips

Route and secure your cables with the hook-and-loop cabling strap clips.







1/4 Turn Hook and Loop Cabling Strap kit

Kit overview

The 1/4 Turn Hook-and-Loop Cabling Strap kit enables you to add hook-and-loop cabling strap clips to manage your cable configurations for your racks. The cabling straps attach to the rear cable management bracket.

Kit contents (BW963A, BW964A)

Item	Quantity
1/4 Turn Hook and Loop Strap 10 PK	10
1/4 Turn Hook and Loop Strap 100 PK	100

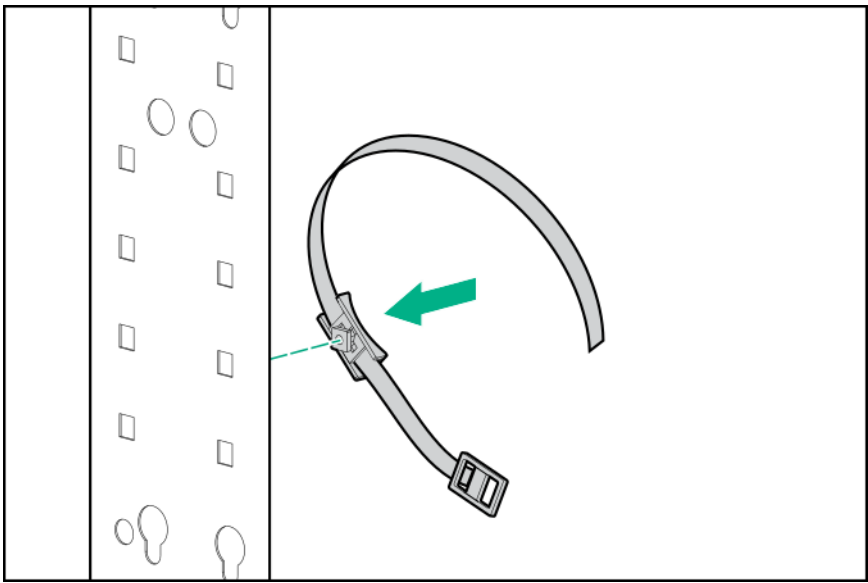
Required tools

No tools are required for this procedure.

Installing the 1/4 turn hook-and-loop cabling strap clips

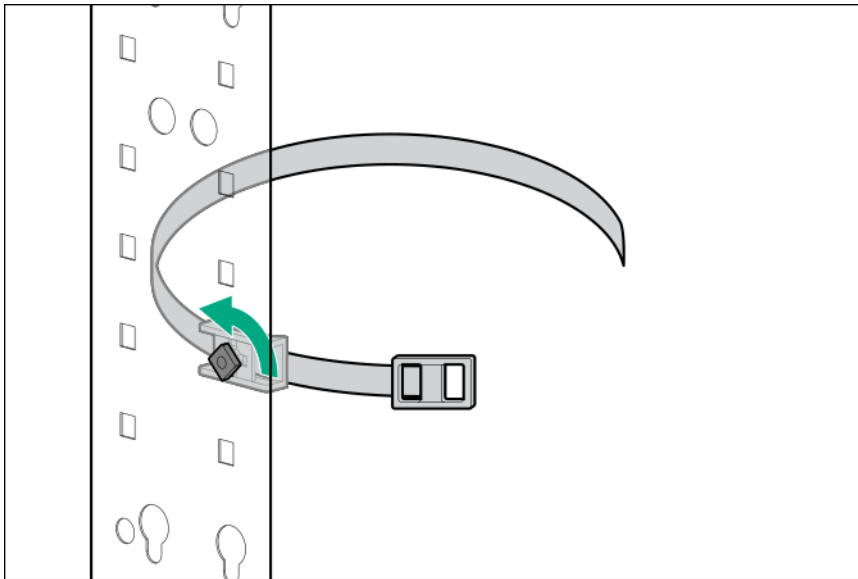
Procedure

1. Route and secure your cables with the hook-and-loop cabling strap clips.
2. Turn the hook-and-loop cabling strap clip at a slight angle to align the square nut with the square hole on the rack.

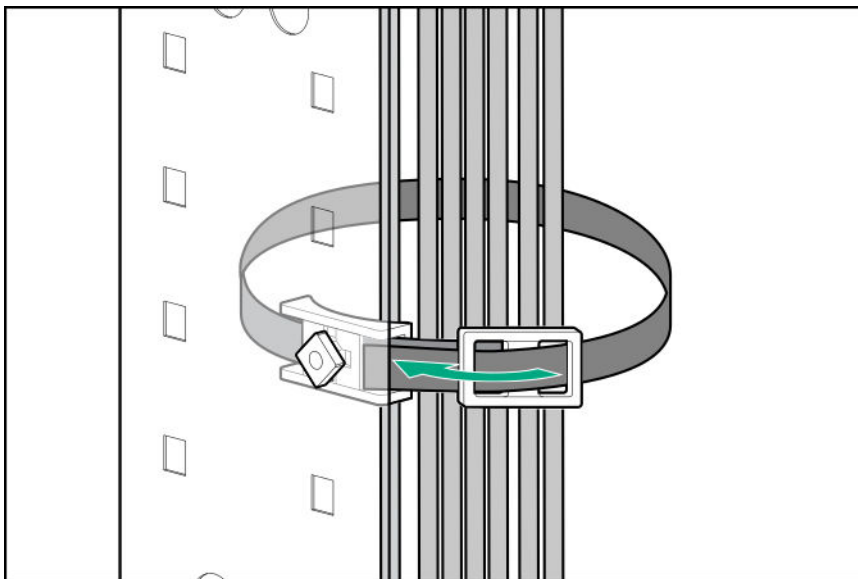


3. Insert the square nut into the square hole on the rack, and then turn it at a 45 degree angle to lock it into place.





4. Bundle rack cables as required.



LED light kit

Kit overview

The LED light kit enables you to add LED lighting to the rack.

Kit contents (BW939A)

Item	Quantity
Power adapter	1
LED light bar	1
Power cord (two pieces)	2
LED light switch	1
Hook-and-loop tape, 1.97" x 3.94"	2
Screw, 5.5x10, self-tapping	4
Washer, M6 plain	2
Mounting plate	2
Screw, PT4x8, Z/P, self-tapping	1

Extra hardware may be included for your convenience.

Required tools (LED light kit)

The following tools are required for installation:

T-25 Torx driver

Installing the LED light kit

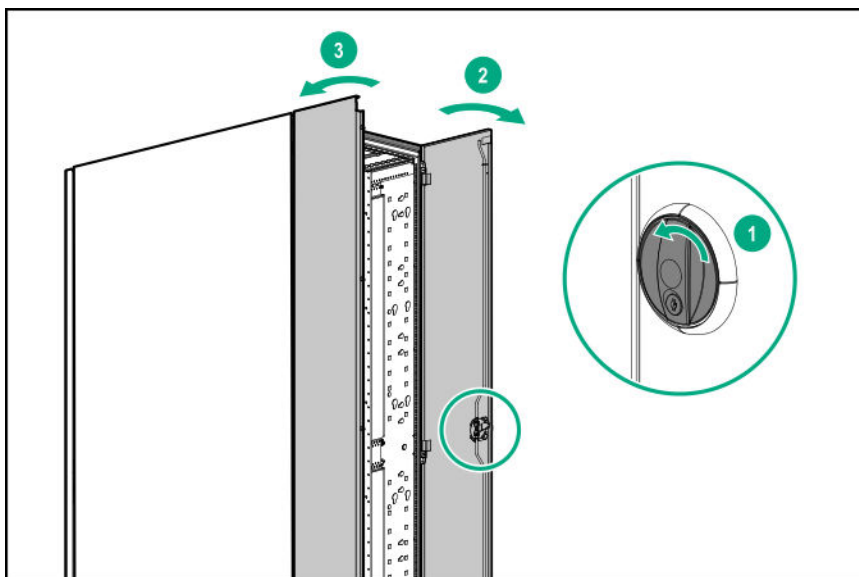
About this task

The LED light kit installation is ambidextrous and adjustable to accommodate varying rack configurations.

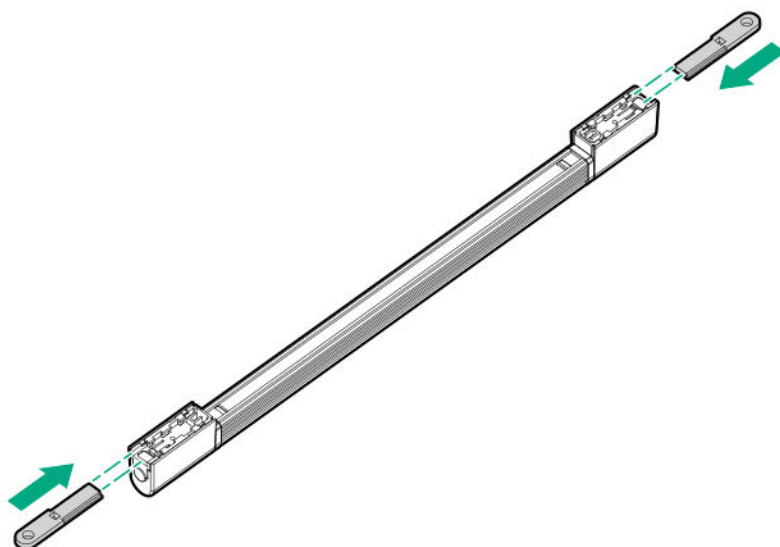
Procedure

1. Open the back door of the rack.

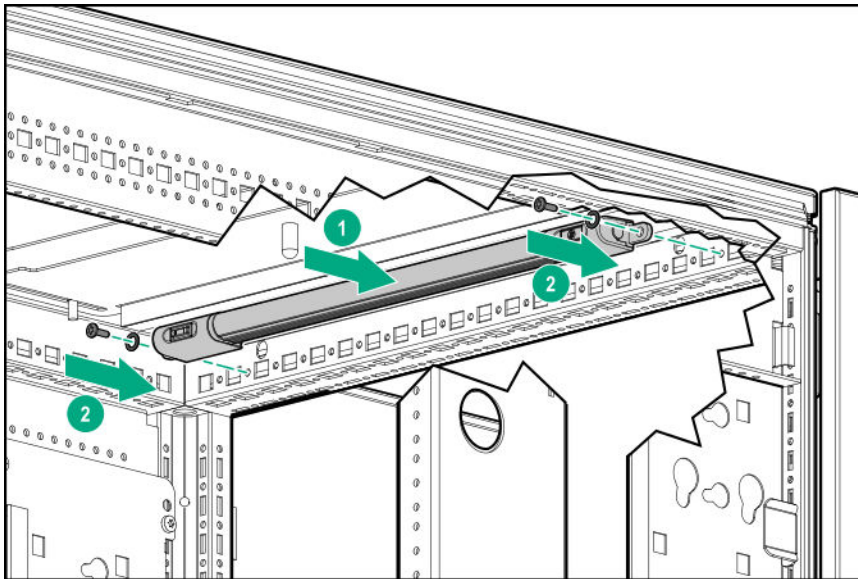




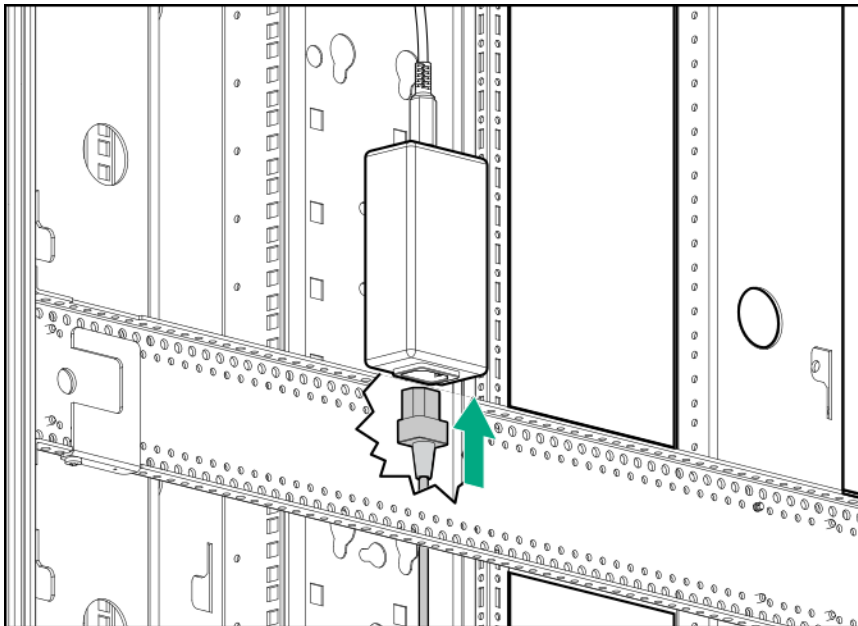
2. Slide one mounting plate onto the back of each side of the LED light.



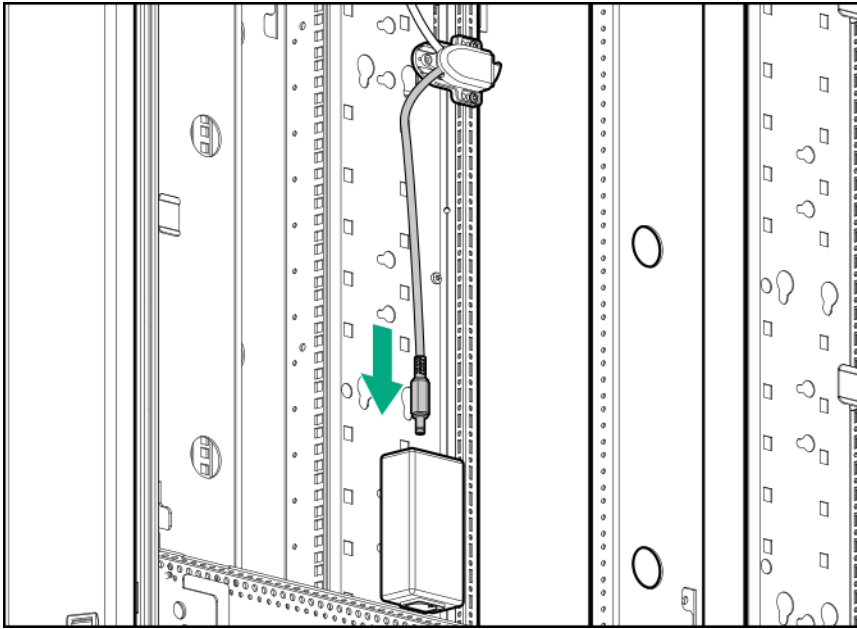
3. Place one screw and one washer through the front holes of the mounting plate. Install the LED light to the upper back of the rack.



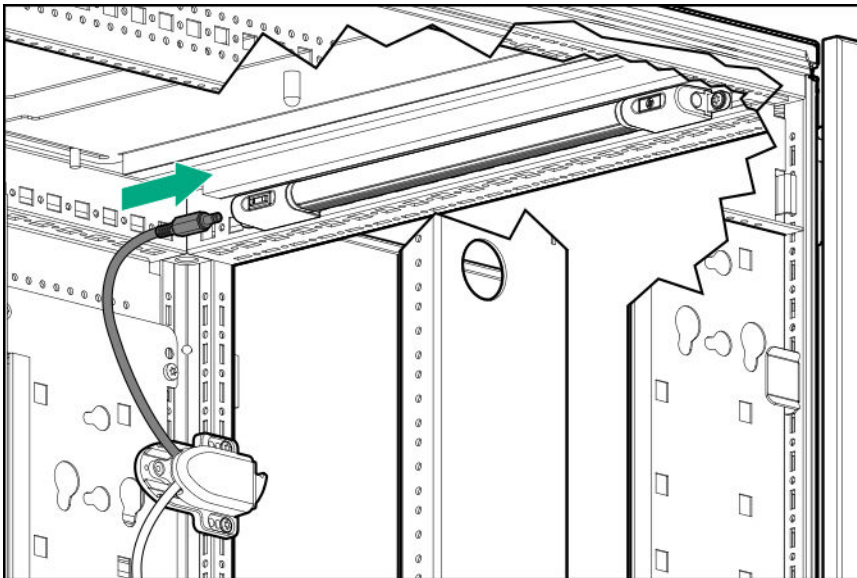
4. Connect the power cord to the power adapter.



5. Connect the short end of the LED light switch connector to the power adapter.

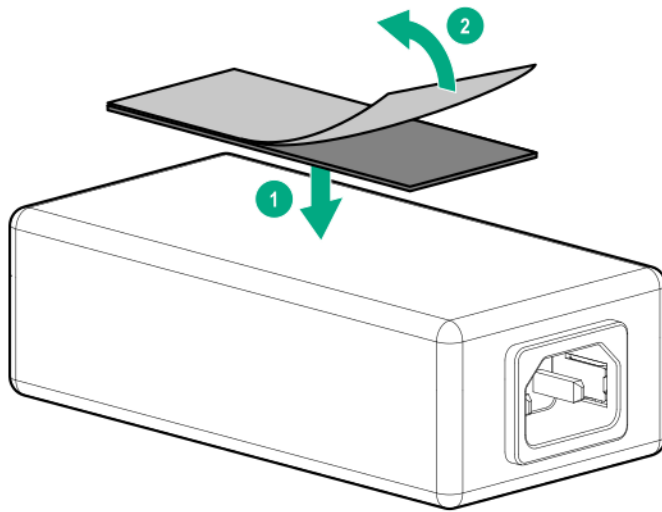


6. Connect the long end of the LED light switch connector to the LED light.

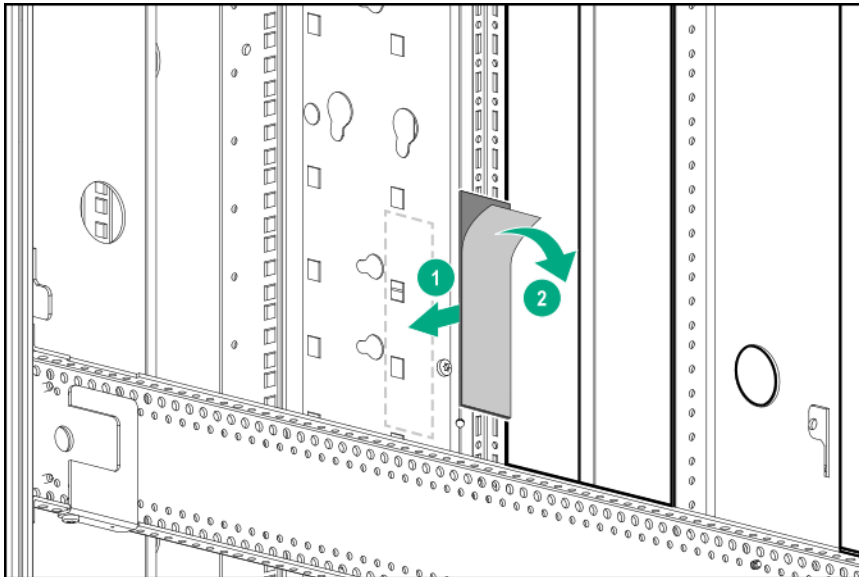


7. Remove the plastic backing from the hook-and-loop piece, and then attach the adhesive side of the hook-and-loop piece to the power adapter.

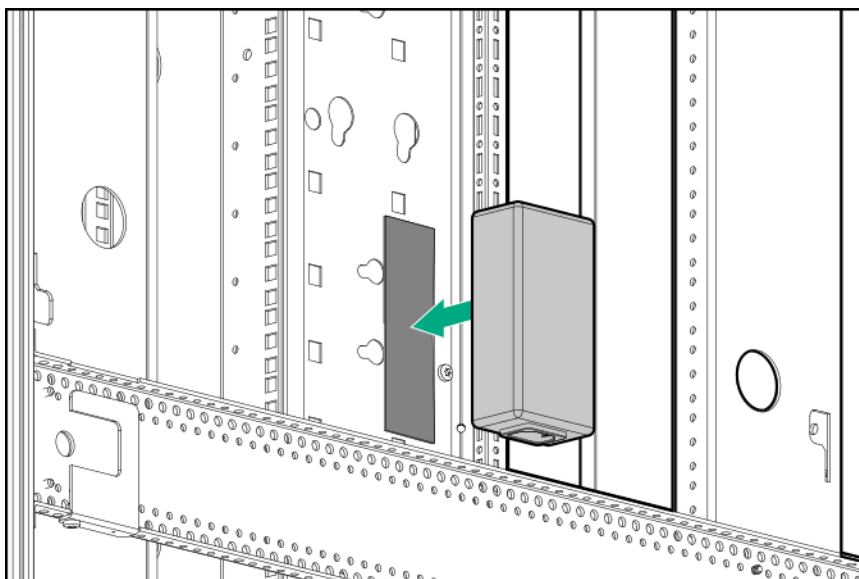




- 8.** Remove the plastic backing from the second hook-and-loop piece, and then attach it to a cable bracket inside the rack. The power adapter can be mounted anywhere that there is available free space along the cable bracket.

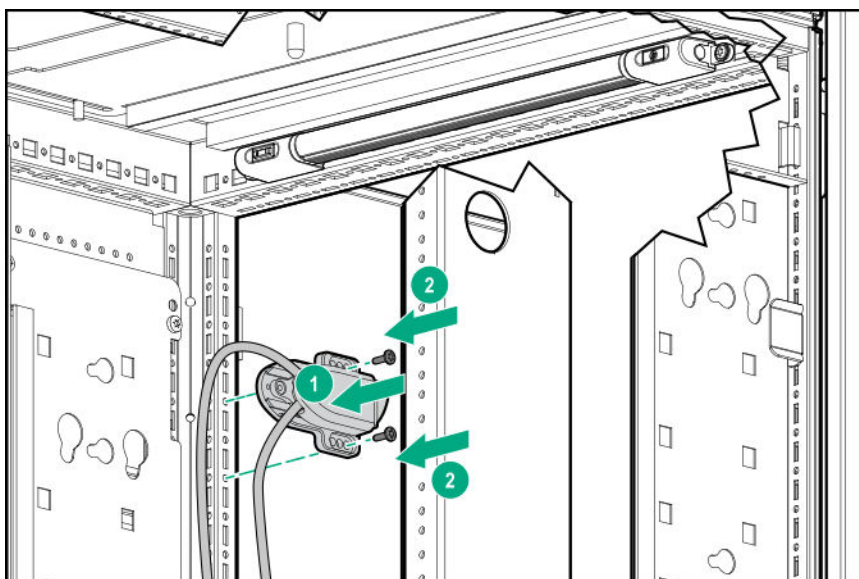


- 9.** Attach the two hook-and-loop pieces together.



- 10.** Attach the switch to the rack using the screws provided.

The light switch can be mounted anywhere that there is available free space along the vertical frame member.



- 11.** Using the appropriate power cord, plug the unit into a power source.
- 12.** Be sure that the LED light is in the "on" position. The switch automatically powers on the LED light when the rack door is opened. The switch also powers off the LED light when the rack door is closed.



Locking drawer kit

Kit overview

This locking drawer can store instruction manuals, tools, or other items frequently used at the rack that requires safekeeping. This kit includes sliding rails and lock with keys.

Kit contents (361591-B21)

Item	Quantity
2U drawer with rails and keys	1
Philips head screws	4
Cage nuts	4

Additional hardware may be provided for your convenience.

Required tools

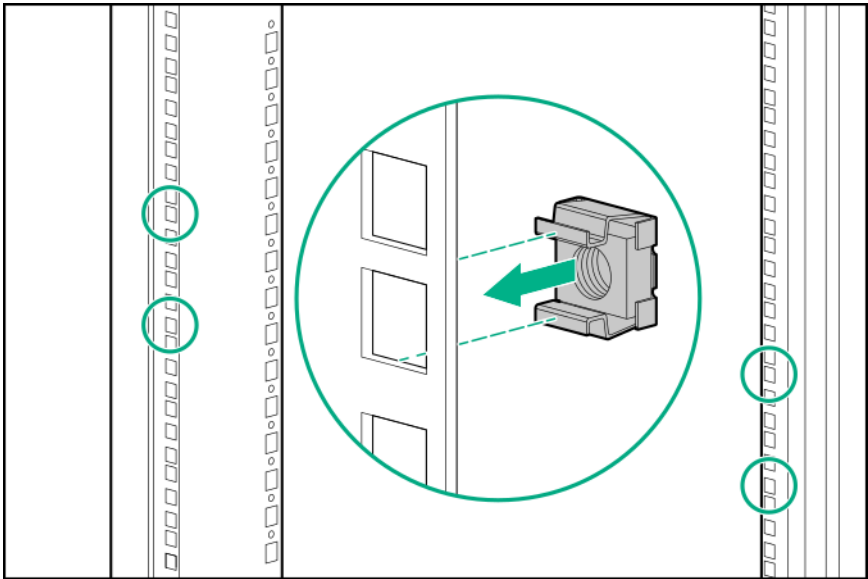
The following tools are required for installation:

- Philips No. 1 screwdriver
- Cage nut insertion tool

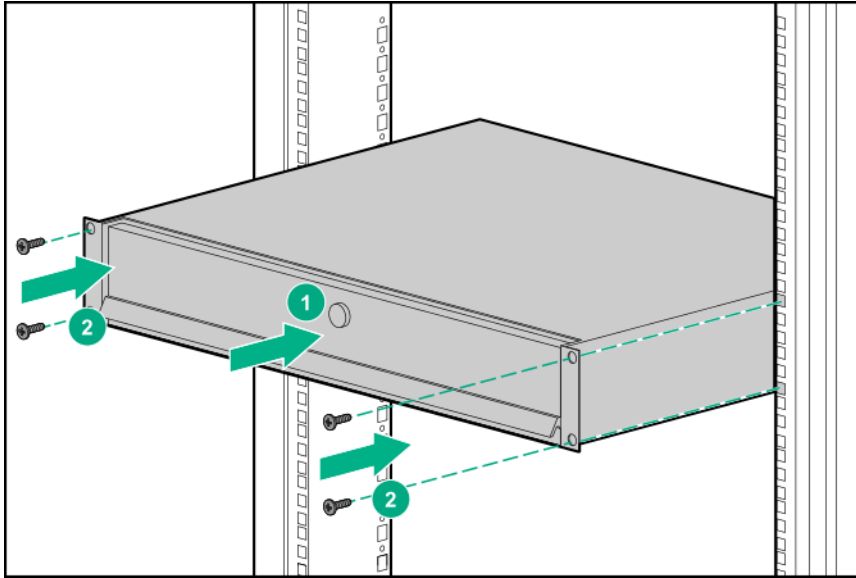
Installing the locking drawer

Procedure

1. Use the included template to mark where the 2U drawer kit will be installed.
2. Use the cage nut insertion tool to install cage nuts into the marked holes.



3. Align the 2U drawer kit with the cage nuts.
4. Insert one screw through each bracket hole on the drawer and into each cage nut and tighten.



5. (Optional) Lock the 2U drawer kit using the key provided.



Server/Utility Shelf kit

Kit overview

The Server/Utility Shelf kit enables you to install a convenient shelf in your rack-mount system. This kit can be used with all racks.

Kit contents (253449-B21)

Item	Quantity
Server/Utility shelf	1
Cage nut	2
Philips screw	2
Quick-release tie-down straps	2

Required tools

The following tools are required for installation:

- Phillips No. 1 screwdriver
- Cage nut insertion tool

Installing the server/utility shelf

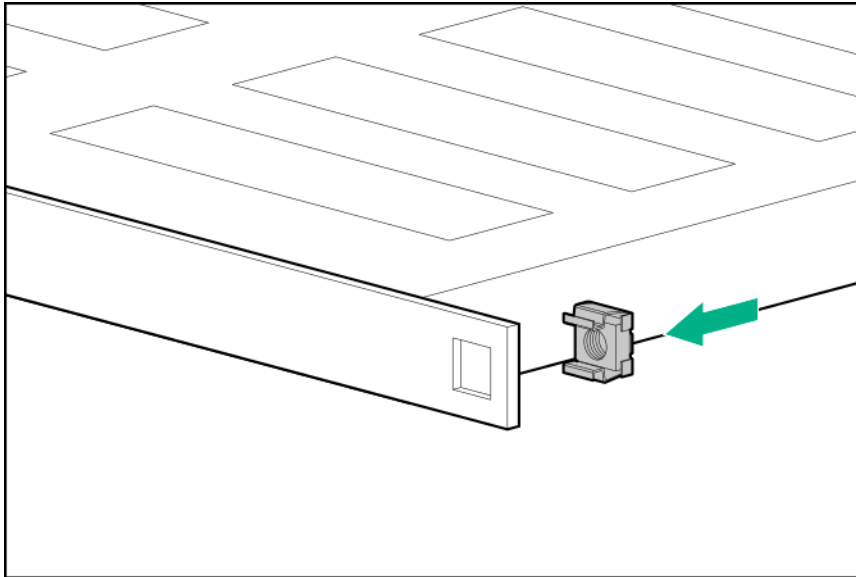
About this task

When installing the server/utility shelf, always plan the installation so that the heaviest item is on the bottom of the rack. Install the heaviest item first, and then continue to populate the rack from the bottom to the top.

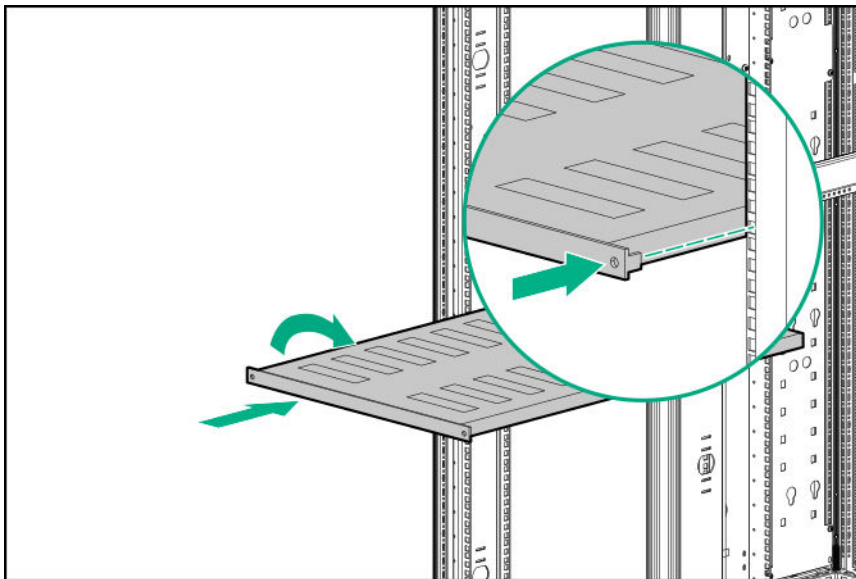
Procedure

1. Align the cage nuts with the square-rail perforations on the front of the shelf.



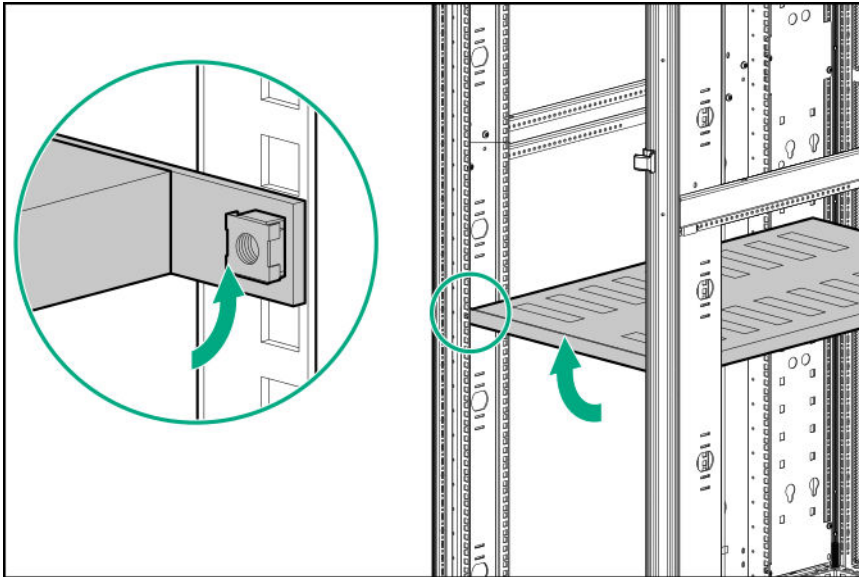


2. Use a cage nut insertion tool to secure each cage nut to the shelf.
 - a. Hook the bottom lip of the cage nut in the square-rail perforation.
 - b. Insert the tip of the insertion tool through the perforation, and then hook the top lip of the cage nut.
 - c. Pull the cage nut through the square-rail perforation until the top lip snaps into position.
3. Hold the shelf firmly and insert the shelf into the rack, tilting the shelf slightly so that the rear teeth on the shelf clear the rear of the rack.
4. Straighten the shelf and insert the rear teeth into the mounting holes on the rear of the rack.

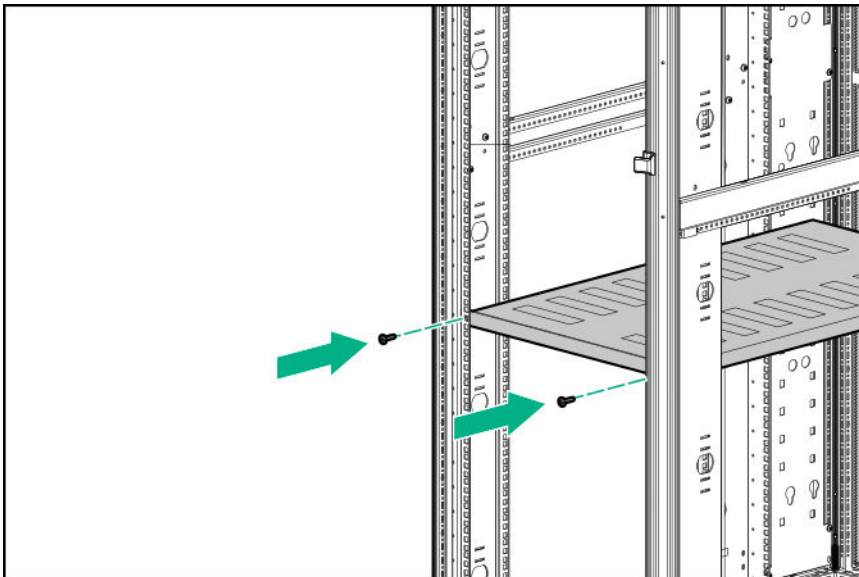


5. Align each cage nut assembly with the mounting holes on the inside front of the rack.

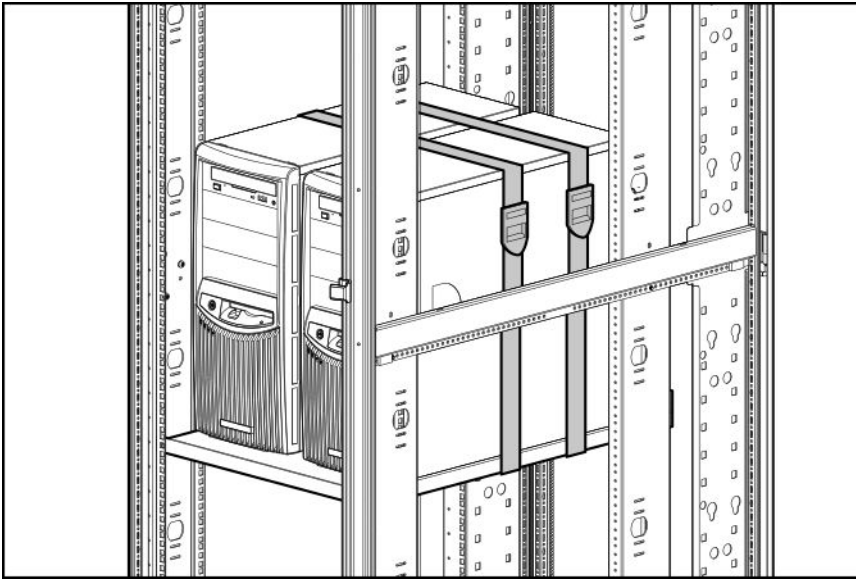




6. Secure the shelf to the rack with two M6 screws using a Phillips screwdriver.



7. Secure servers to the shelf using the quick-release tie-down straps.



100 Kilo Sliding Shelf kit

Kit overview

The HPE 100 Kilo Sliding Shelf kit enables you to install a sliding shelf in your rack mount system for placement and easy access to various components. This option occupies 2Us of rack space.

Kit contents (234672-B21)

Item	Quantity
Shelf with handle	1
Right rail with fixed brackets	1
Left rail with fixed brackets	1
Sliding rail	2
Cable management arm with hardware	1
Rack template	1
Hardware kit	
M4 x 12 flat HD screw	8
M4 external washer	6
M4 x 10 pan HD screw	2
M6 x 12 pan HD screw	12
M4 plain washer	2
M4 nut	6
M6 external washer	2
Black plastic cup washer	10

Required tools

The following tools are required for installation:

- No. 2 Phillips screwdriver
- No. 3 Phillips screwdriver

Preparing the sliding shelf rail assemblies for installation

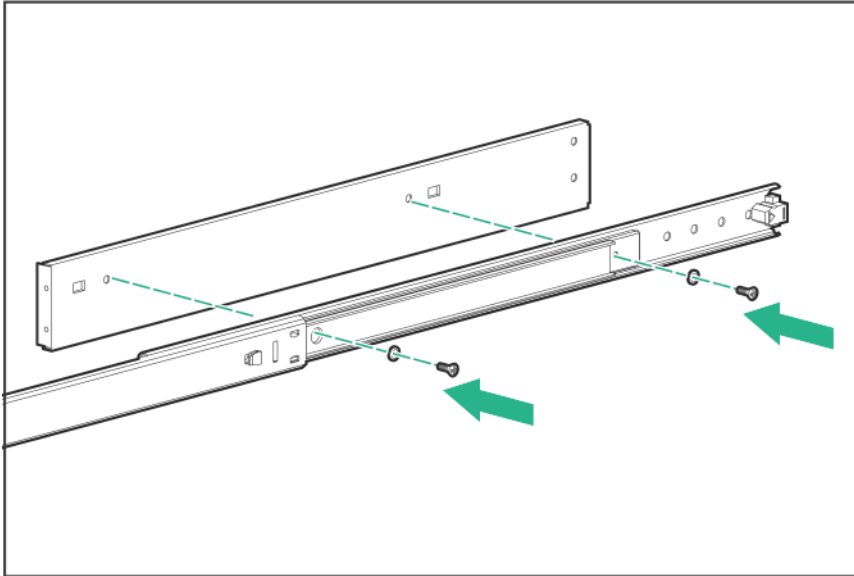
About this task

Each sliding shelf rail assembly consists of a rail with fixed brackets attached to a sliding rail. To construct the sliding shelf rail assemblies:

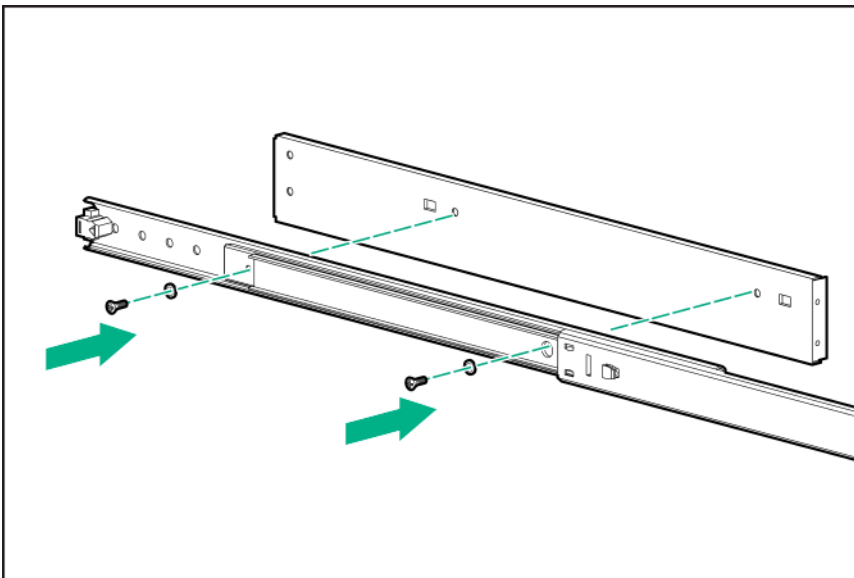


Procedure

1. Hold the flat side of the left rail with fixed brackets facing toward you.
2. Place the sliding rail on top of the left rail with fixed brackets.
3. Extend the inner slides of the sliding rail until the screw holes on the sliding rail and the left rail with fixed brackets are aligned. Gently push down on the sliding rail to lock it into place.
4. Secure the rails together with two M4 x 12 flat HD screws and M4 external washers.



5. Repeat steps 1 through 4 for the right rail with fixed brackets.



Installing the sliding shelf rail assemblies

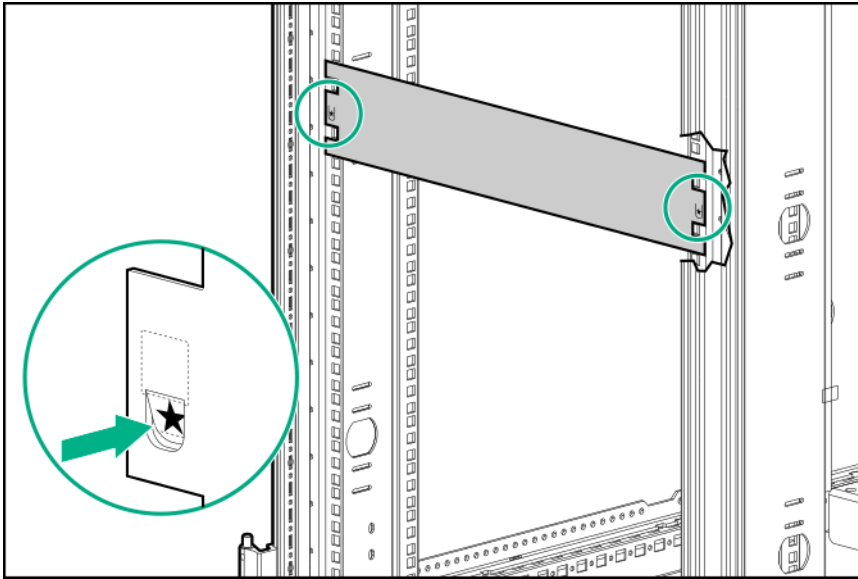
About this task

Before installing the sliding shelf, use the following steps to install the sliding shelf rail assemblies into the rack.



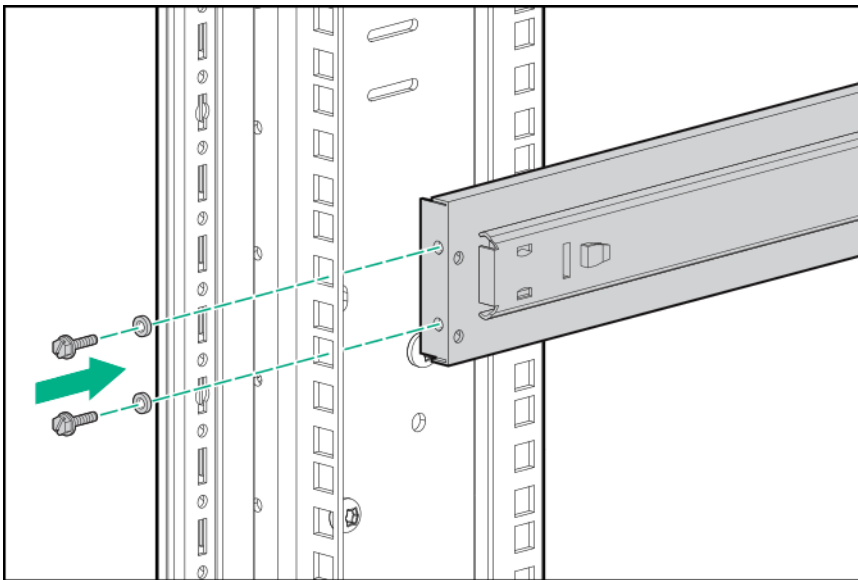
Procedure

1. Use the template on the front and rear of the rack frame to mark the attachment points for the sliding shelf rail assemblies, by measuring from the top of the component installed below the desired position for the sliding shelf.



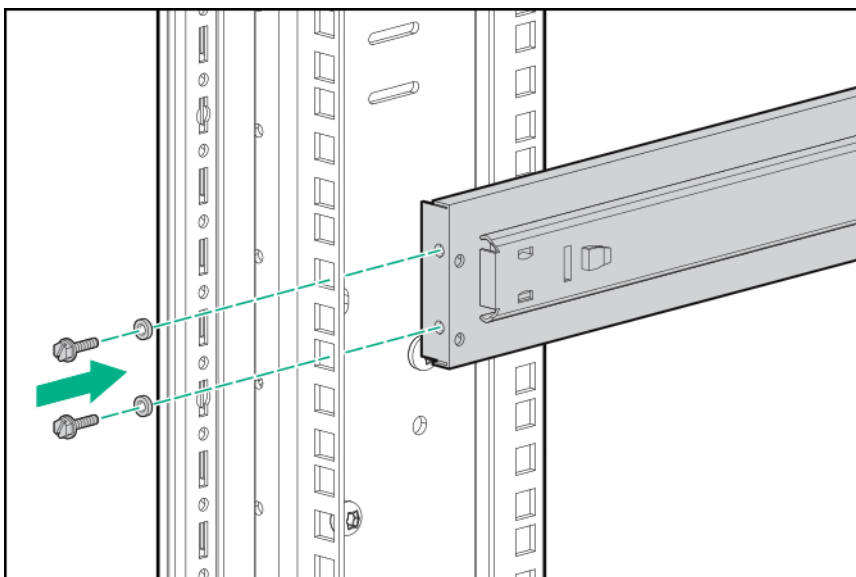
- ❗ **IMPORTANT:** When using the template on the rear of the rack frame, mark the rack at the top of the template to help align the next rack component.

2. Align and secure the rear of the left sliding shelf rail assembly to the rear of the rack frame with two M6 x 12 pan HD screws and M6 external washers.



3. Secure the front of the left sliding shelf rail assembly to the front of the rack frame with two M6 x 12 pan HD screws and M6 external washers.



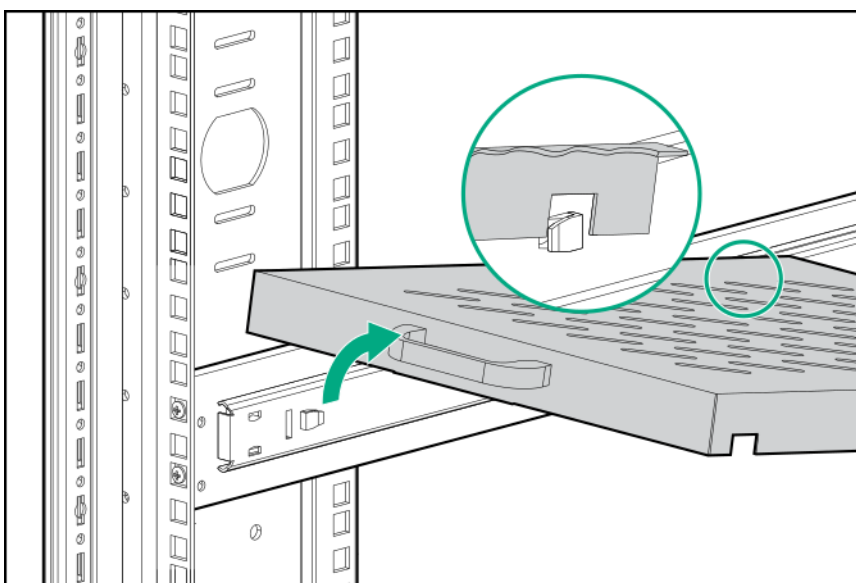


4. Repeat steps 2 and 3 to install the right sliding shelf rail assembly.

Installing the sliding shelf

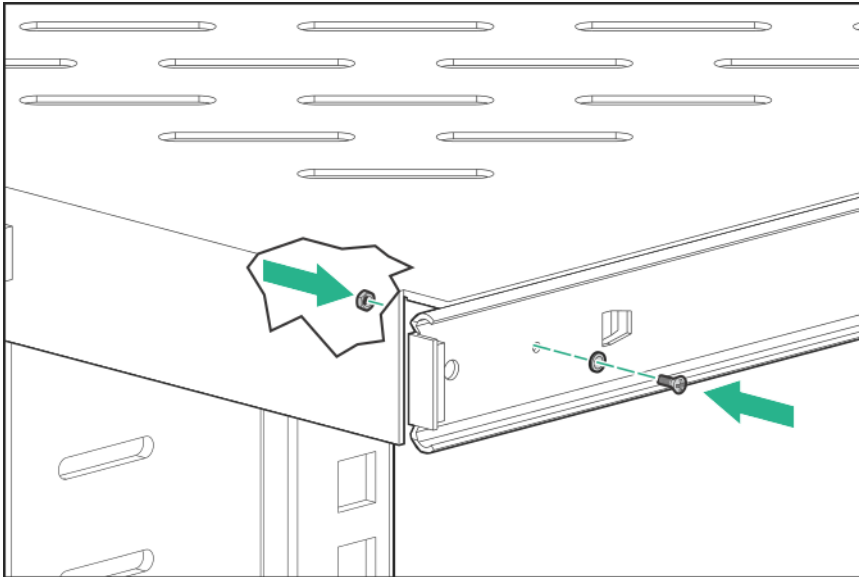
Procedure

1. Move the sliding shelf into the rack while tilting the front of the shelf up. Align the rear notches on the sliding shelf over the rear tabs on the sliding shelf rail assemblies.

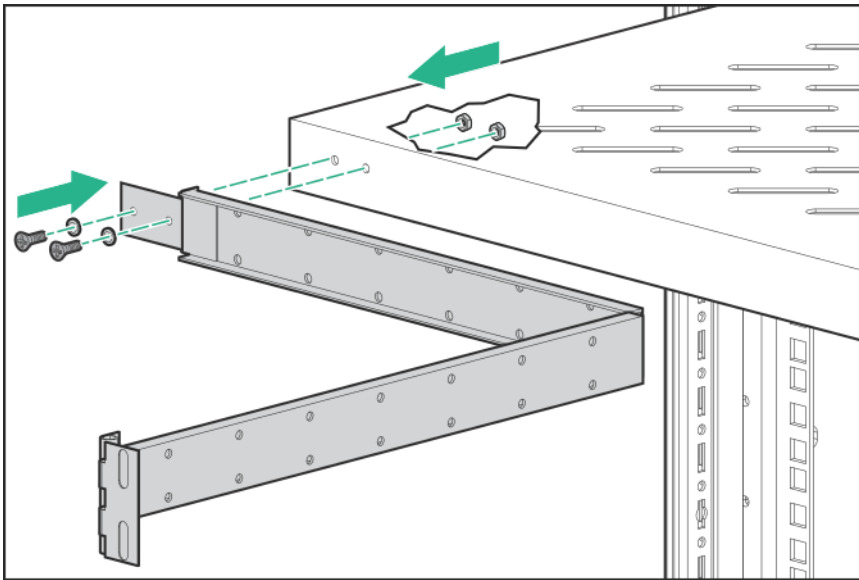


2. Push the sliding shelf down on the rear tabs to align the front notches on the sliding shelf with the front tabs on the sliding shelf rail assemblies.
3. Lower the front of the sliding shelf over the tabs on the front of the sliding shelf rail assemblies and push down gently to lock the shelf into place.
4. Secure the sliding shelf to each sliding rail using one M4 x 12 flat HD screw and M4 external washer with one M4 nut on the inside of the shelf.



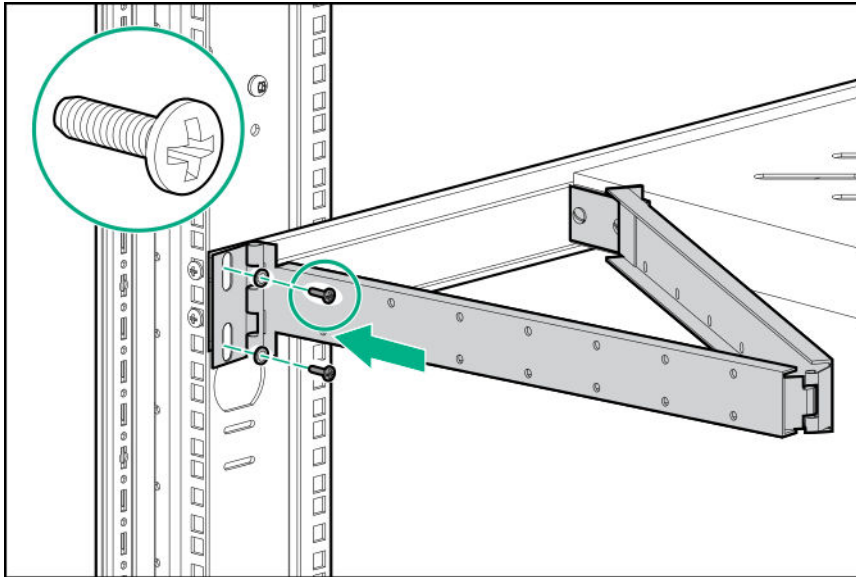


5. Attach the cable management arm to the sliding shelf with the flat side of the cable management arm mounting bracket flush with the sliding shelf.
6. Secure the cable management arm to the sliding shelf using two M4 x 12 flat HD screws and M4 external washers with two M4 nuts on the inside of the shelf.



NOTE: The cable management arm attaches to the rear of the sliding shelf on either the right or left side.

7. Secure the opposite end of the cable management arm to the rack using two M6 x 12 pan HD screws and M6 external washers.



Using the 100 Kilo Sliding Shelf

Use the handle on the front of the sliding shelf to slide it in and out of the rack. When sliding the shelf back into the rack, there may be resistance. Apply pressure as needed to fully move the shelf into the rack.

ⓘ **IMPORTANT:** Be sure to secure all rack mount system components when moving the shelf out of the rack.

Side Panel kit

Kit overview

The Side Panel kit enables you to attach side panels to the racks.

Kit contents (P9L15A - P9L18A)

Item	Quantity
Top side panel	2
Bottom side panel	2
Keys	2

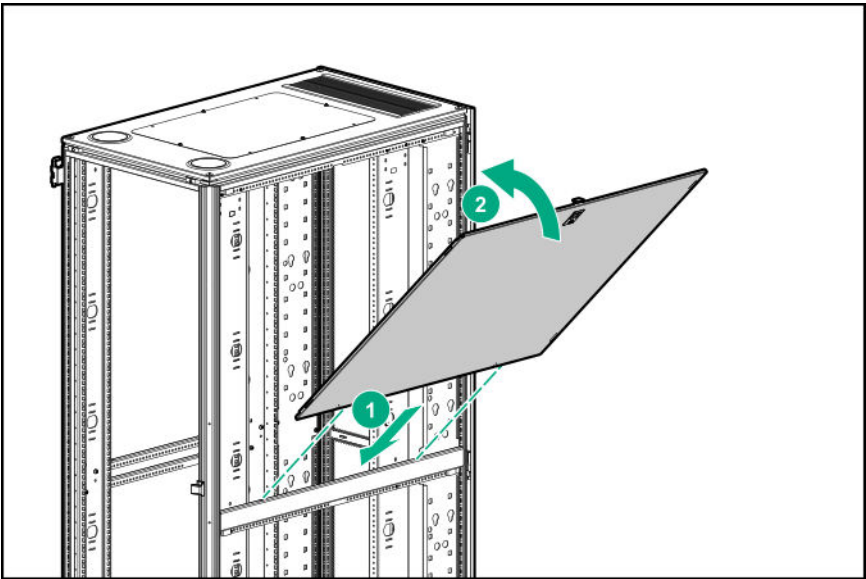
Required tools

No tools are required for this procedure.

Installing the side panels

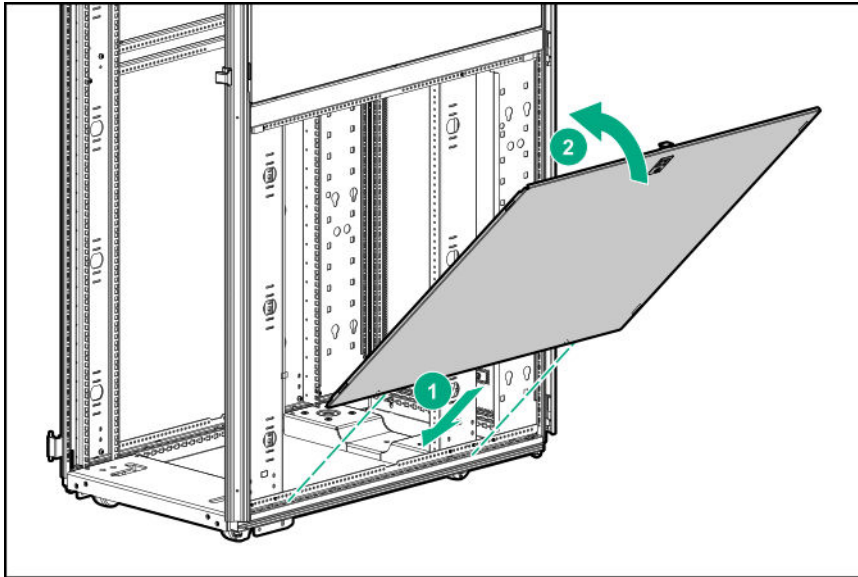
Procedure

1. Tilt the top side panel at a 45 degree angle and insert the panel behind the tabs on the rack frame.
2. Firmly push the panel into place and lock the panel.



3. Complete steps 1 and 2 for the bottom side panel.





Stabilizer kit

Kit overview

The Stabilizer kit provides stability and support and prevents possible tipping when you install, remove, or access equipment within HPE Advanced G2 Series or HPE Enterprise G2 Series racks.

The stabilizer kit is either required or recommended, depending on your rack configuration. There are four stabilizer kit options.

- The standard 600-mm (23.6 in) or 800-mm (31.5 in) front foot is required with deployments of stand-alone racks. Rack rows with four or more bayed racks, without a single rack-mountable component exceeding 99.8 kg (220 lb), do not need a stabilizer kit installed.
- The heavy duty 600-mm (23.6 in) front foot is required when a single rack-mountable component weighing 99.8 kg (220 lb) or more is installed in a stand-alone rack or in a rack belonging to a rack row of three or fewer bayed racks.

Kit contents (BW932A, BW933A)

Item	Quantity
600-mm (23.62-inch) Front stabilizer mount (BW932A)	1
800-mm (31.5-inch) Front stabilizer mount (BW933A)	1
Stabilizer feet	2
M8 x 30-mm bolt	8
M8 flat washer	8

Required tools

The following tools are required for installation:

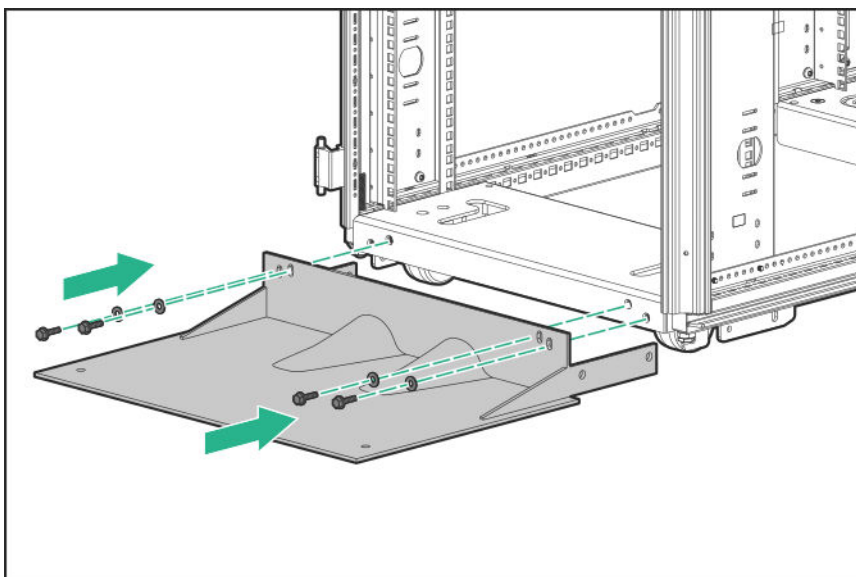
- Ratchet with sockets
- Adjustable wrench

Installing the stabilizer

Procedure

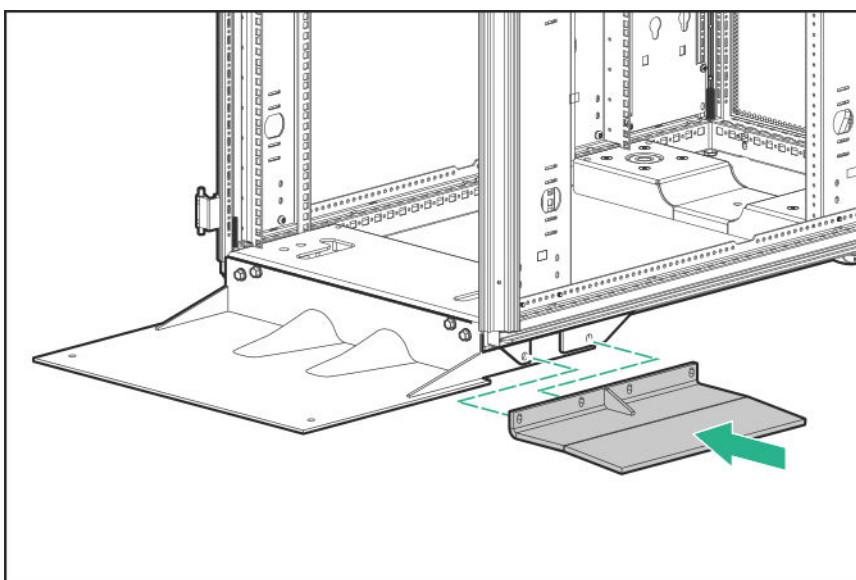
1. Raise the rack with leveling feet to align the front foot with the front caster plate.
2. Insert and partially tighten four bolts with washers, securing the front foot to the front caster plate.



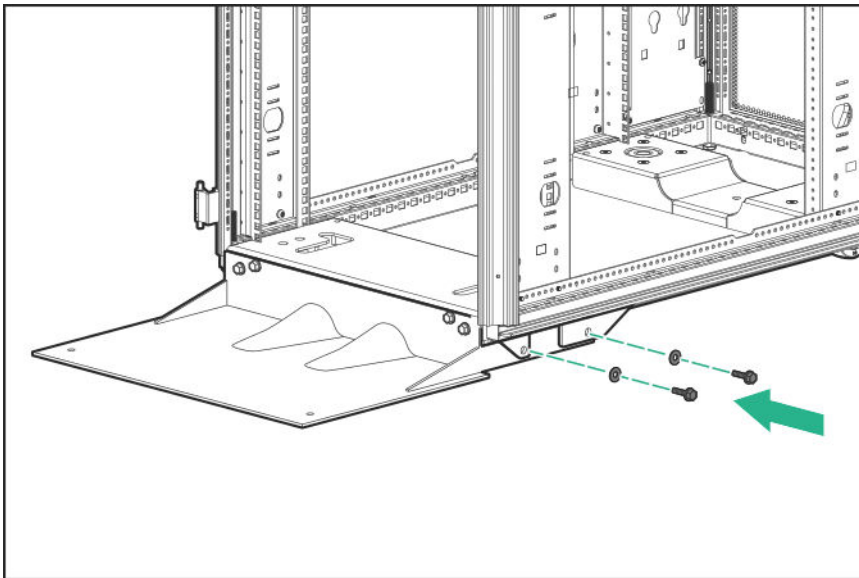
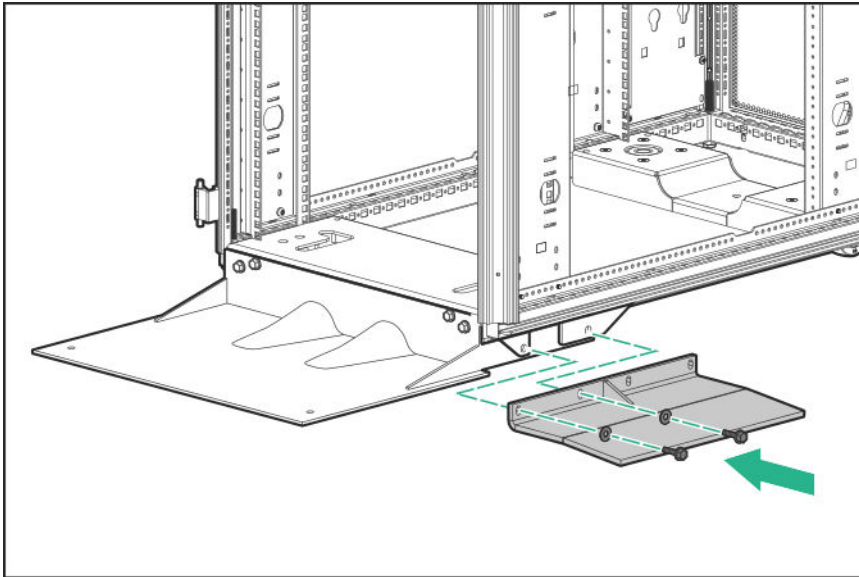


3. If you are using the side feet, align the side feet with the holes on the castor plate skirt and front foot.

NOTE: Hewlett Packard Enterprise recommends using the side feet, provided with this kit, to stabilize standalone racks from the side. If you are stabilizing racks that are secured together with baying kits, the side feet are optional on either end of the row.



4. Insert and partially tighten two bolts with washers, securing the side feet (if installed) and front foot to the castor plate skirt.



5. Tighten the bolts from steps 2 and 4.



Heavy Duty Stabilizer kit

Kit overview

The Heavy Duty Stabilizer kit provides stability and support and prevents possible tipping when you install, remove, or access equipment within the HPE Advanced G2 Series or HPE Enterprise G2 Series racks.

Use the heavy duty stabilizer kit if you have a stand-alone rack with a single rack-mountable component that exceeds 99.8 kg (220 lb) or if you have three or fewer bayed racks with a single rack-mountable component that exceeds 99.8 kg (220 lb).

NOTE: This kit is only available for 600mm wide racks.

Kit contents (BW961A)

Item	Quantity
Heavy duty front stabilizer mount	1
Heavy duty stabilizer feet	2
M8 x 16-mm bolt	8
M8 x 30-mm bolt	2
M8 flat washer	10

Required tools

The following tools are required for installation:

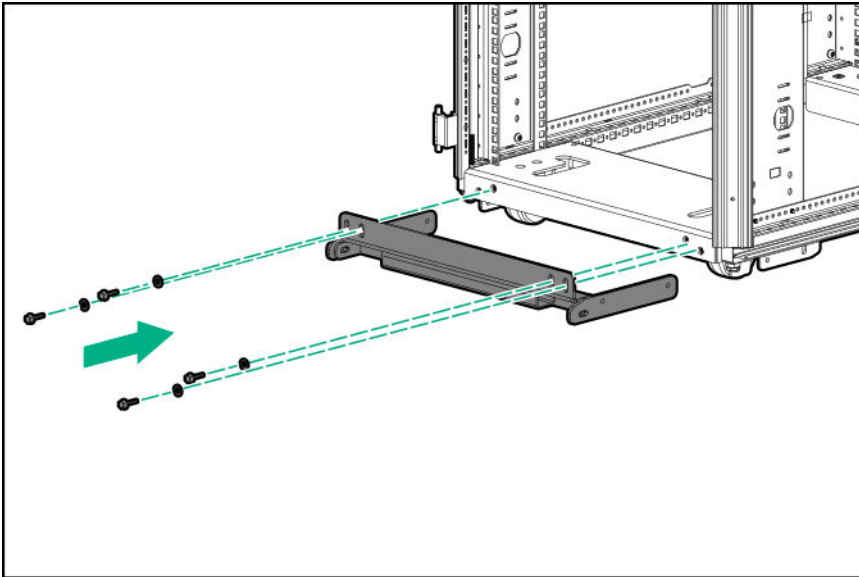
- Ratchet with sockets
- Adjustable wrench

Installing the heavy duty stabilizer

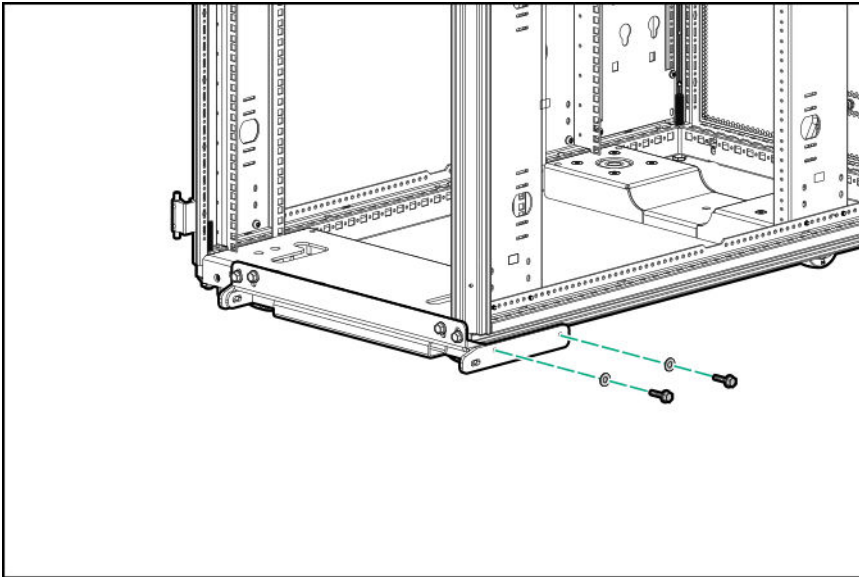
Procedure

1. Install the front stabilizer mount.
 - a. Align the front stabilizer mount to the mounting holes on the rack front caster plate.
 - b. Insert and partially tighten four M8 x16-mm bolts with washers, securing the front stabilizer mount to the front caster plate.





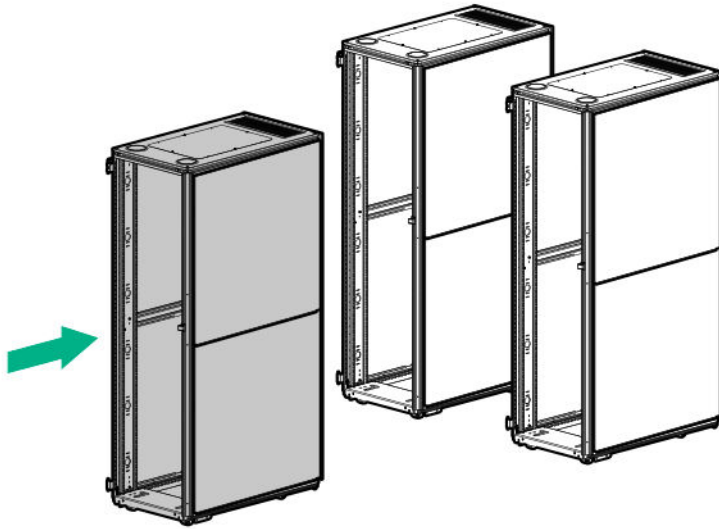
- c. Insert and partially tighten two M8 x16-mm bolts with washers on each side of the caster plate skirt, securing the front stabilizer mount to the front caster plate.



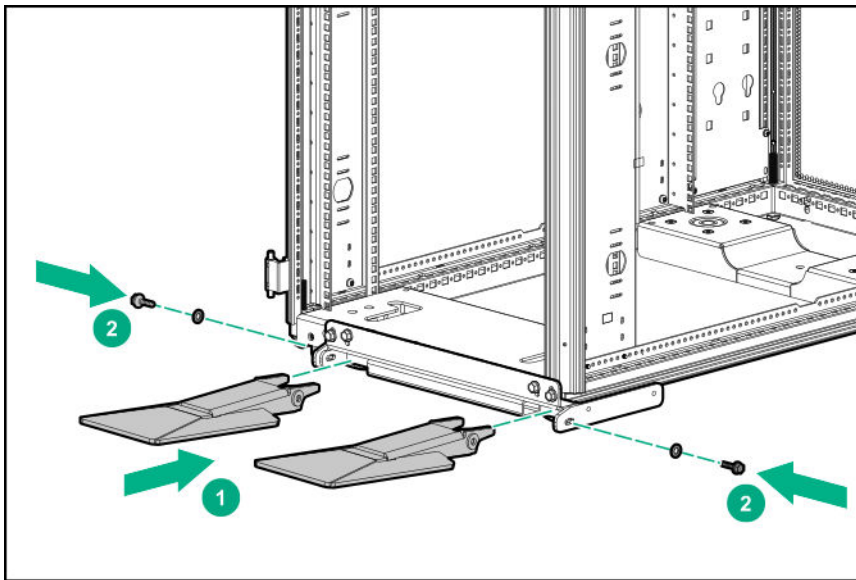
- d. Tighten the bolts from step b and c.

2. Slide the rack into its final location.





3. Raise the rack by lowering the leveling feet, raising the casters approximately 6.4 mm (0.25 in) off the floor.
4. Install one stabilizer foot on each side of the front stabilizer mount (1) by inserting and partially tightening one M8 x 30-mm bolt and washer on each foot (2).



5. Fully seat each stabilizer foot to the front stabilizer mount, and tighten the bolts from step 4.
6. Lower the rack so that the full weight of the rack rests on the rear leveling feet and the front stabilizer feet.



WARNING: To reduce the risk of personal injury or damage to the equipment, be sure that:

- The front and rear leveling feet are extended to the floor.
- The full weight of the rack rests on the rear leveling feet and front stabilizer feet.



Universal Rack Tie-down kit

Kit overview

The Rack Tie-Down kit enables you to secure the racks to the floor.

Kit contents (Q9V01A)

Extra hardware might be included for your convenience.

Item	Quantity
Front tie-down bracket	2
Rear tie-down bracket	1
M8 x 20-mm bolt	4
M8 x 22-mm bolt	3
M8 flat washer	7
M8 spring clip	3

Required tools

The following tools are required for installation:

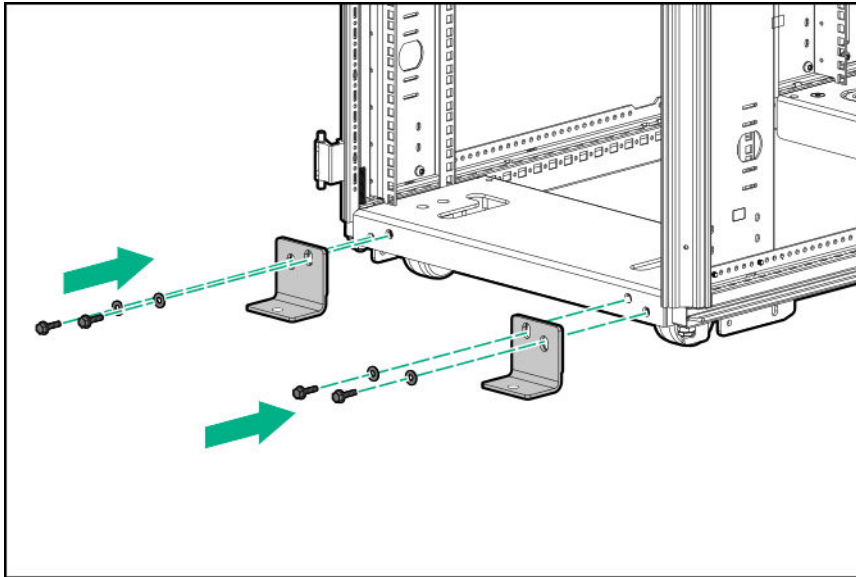
- Ratchet with sockets
- Adjustable wrench

Installing the Universal Rack Tie-down kit

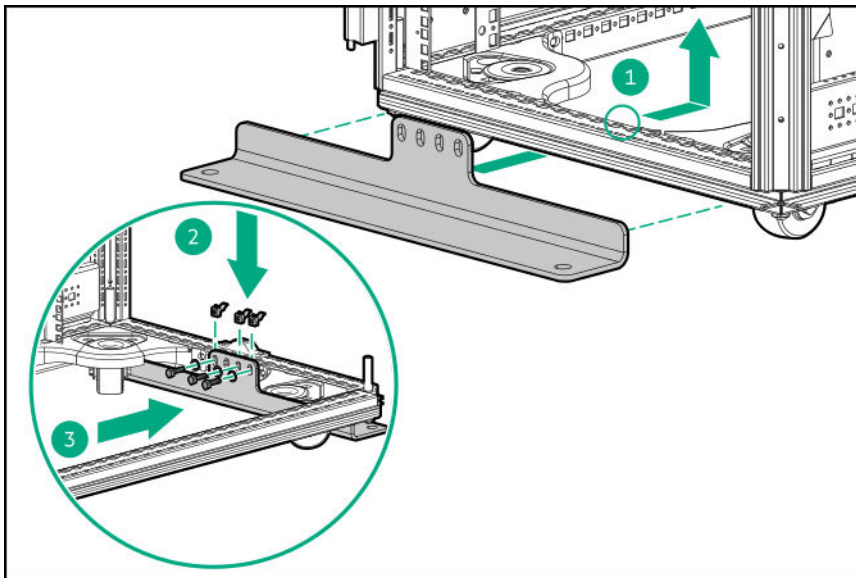
Procedure

1. Adjust the leveling feet on the rack so that the full weight of the rack rests on the leveling feet.
2. Align the front tie-down brackets with the holes on the front caster plate.
3. Insert and partially tighten the 20-mm bolts with washers, securing the front tie-down brackets to the front caster plate.





4. Align the rear tie-down with the holes on the rear caster plate.
5. Insert the spring clips, and then partially tighten the 22-mm bolts with washers, securing the rear tie-down to the rear caster plate.



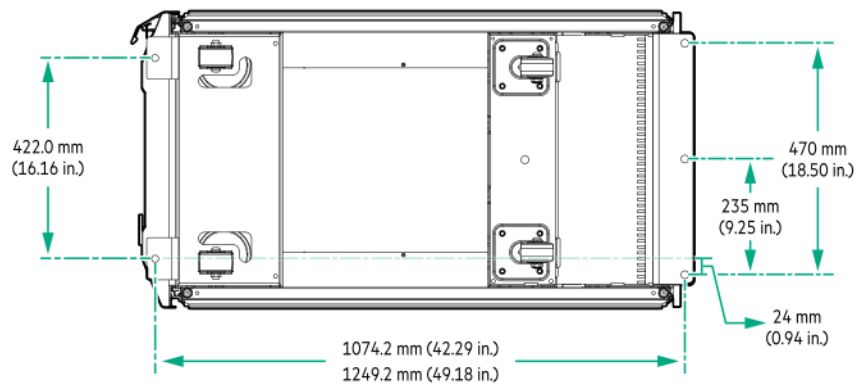
6. Tighten the bolts from steps 3 and 5.
7. Secure the rack to the floor.

Securing the rack to the floor

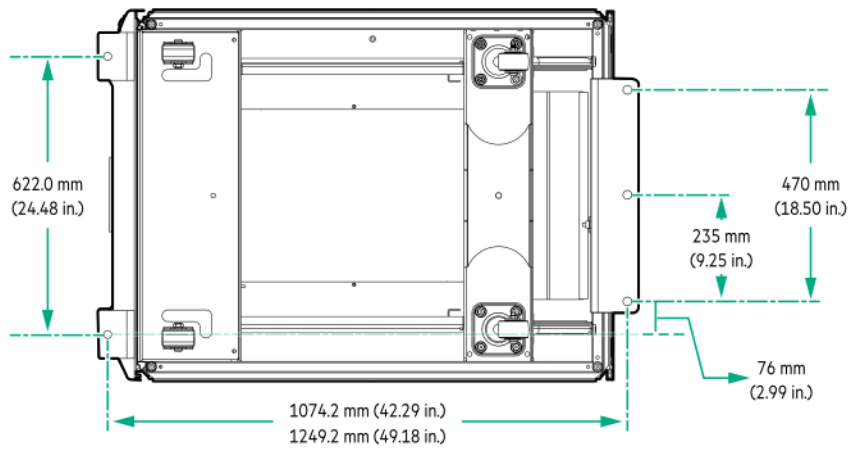
The following illustration indicates where to drill the holes to secure the rack to the floor. The distances are measured from the holes on the tie-downs. Have your building structural engineer drill the holes. After your holes have been drilled, insert a bolt with a washer into each hole to secure the rack to the floor.

600 mm rack





800 mm rack



Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
<https://www.hpe.com/info/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
<https://www.hpe.com/support/hpesc>

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.

- To download product updates:

Hewlett Packard Enterprise Support Center

<https://www.hpe.com/support/hpesc>

My HPE Software Center

<https://www.hpe.com/software/hpesoftwarecenter>

- To subscribe to eNewsletters and alerts:

<https://www.hpe.com/support/e-updates>

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:

<https://www.hpe.com/support/AccessToSupportMaterials>

❗ **IMPORTANT:** Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Account set up with relevant entitlements.



Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR.

For more information about CSR, contact your local service provider.

Websites

General websites

Hewlett Packard Enterprise Support Center

www.hpe.com/support/hpesc

Contact Hewlett Packard Enterprise Worldwide

www.hpe.com/assistance

Insight Remote Support

www.hpe.com/info/insightremotesupport/docs

For additional websites, see [Support and other resources](#).

Warranty information

To view the warranty information for your product, see the [warranty check tool](#).

Warranty information

HPE ProLiant and x86 Servers and Options

<http://www.hpe.com/support/ProLiantServers-Warranties>

HPE Enterprise Servers

<http://www.hpe.com/support/EnterpriseServers-Warranties>

HPE Storage Products

<http://www.hpe.com/support/Storage-Warranties>

HPE Networking Products

<http://www.hpe.com/support/Networking-Warranties>

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

<https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

<https://www.hpe.com/info/reach>

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:



<https://www.hpe.com/info/ecodata>

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

<https://www.hpe.com/info/environment>

Belarus Kazakhstan Russia marking



Manufacturer and Local Representative Information

Manufacturer information:

Hewlett Packard Enterprise Company, 3000 Hanover Street, Palo Alto, CA 94304 U.S.

Local representative information Russian:

- Russia:

ООО «Хьюлетт Паккард Энтерпрайз», Российская Федерация, 125171, г. Москва,
Ленинградское шоссе, 16А, стр.3, Телефон/факс: +7 495 797 35 00

- Belarus:

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ул. Интернациональная, 36-1, Телефон/факс: +375 17 392 28 20

- Kazakhstan:

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г. Алматы, Бостандыкский район, проспект Аль-Фараби, 77/7,
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Local representative information Kazakh:

- Russia:

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Бостандық ауданы, Әл-Фараби даңғылы, 77/7, Телефон/факс: +7 727 355 35 52

Manufacturing date:

The manufacturing date is defined by the serial number.



CCSYWWZZZZ (serial number format for this product)

Valid date formats include:

- YWW, where Y indicates the year counting from within each new decade, with 2000 as the starting point; for example, 238: 2 for 2002 and 38 for the week of September 9. In addition, 2010 is indicated by 0, 2011 by 1, 2012 by 2, 2013 by 3, and so forth.
- YYWW, where YY indicates the year, using a base year of 2000; for example, 0238: 02 for 2002 and 38 for the week of September 9.

Turkey RoHS material content declaration

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur

Ukraine RoHS material content declaration

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057

