

# 40U-P Cabinet

## Unpacking and Setup Guide

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This Unpacking and Setup Guide contains information about the 40U-P cabinet. Topics include:

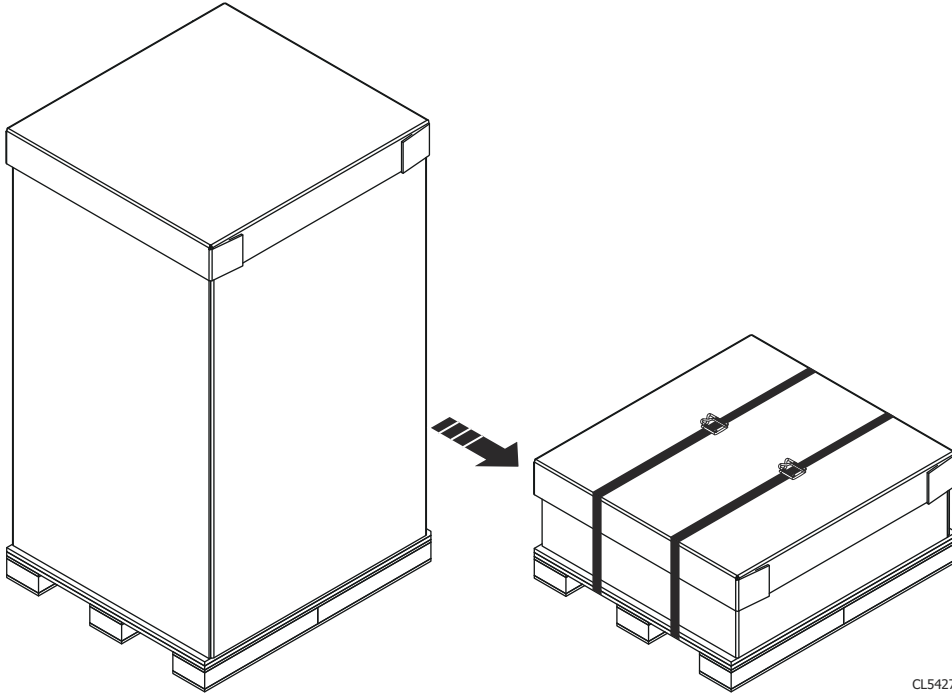
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# Before you start

This section contains important information you should read prior to unpacking and setting up the 40U-P cabinet.

**CAUTION:** Some products are designed for installation by trained service personnel only. Attempts by unqualified personnel to set up and start certain products may result in system damage and may void product warranties. Contact your representative for detailed warranty, installation, and initialization policies.

Please dispose of shipping material responsibly, and recycle wherever and whenever possible. Cabinet packaging that includes a collapsible downloading ramp can be re-packaged and returned, as described in Repackaging shipping material (2-piece ramp kits only).



CL5427

**NOTE:** The illustrations in this guide are examples only. Depending on what you ordered, your configuration may look somewhat different from what is shown here.

## Tools required

- 9/16-in. (14-mm) socket wrench
- Adjustable wrench
- Flat screwdriver
- Phillips screwdriver

## Hardware acclimation

Systems and components must acclimate to the operating environment before power is applied to them. Once unpackaged, the system must reside in the operating environment for up to 16 hours to thermally stabilize and prevent condensation.

If the last 24 hours of the TRANSIT/STORAGE environment was:		...and the OPERATING environment is:	...then let the system or component acclimate in the new environment this many hours:
Temperature	Relative Humidity	Temperature	Acclimation Time
Nominal 68–72°F (20–22°C)	Nominal 40–55% RH	Nominal 68–72°F (20–22°C) 40–55% RH	1 hour or less
Cold <68°F (20°C)	Dry <30% RH	<86°F (30°C)	4 hours

If the last 24 hours of the TRANSIT/STORAGE environment was:		...and the OPERATING environment is:	...then let the system or component acclimate in the new environment this many hours:
	Damp >30% RH		
Hot >72°F (22°C)	Dry <30% RH		
	Humid 30–45% RH		
Hot >72°F (22°C)	Humid 45–60% RH	<86°F (30°C)	8 hours
Hot >72°F (22°C)	Humid >60% RH	<86°F (30°C)	16 hours
Unknown			

**IMPORTANT:**

- If there are signs of condensation after the recommended acclimation time has passed, allow an additional eight (8) hours to stabilize.
- System components must not experience changes in temperature and humidity that are likely to cause condensation to form on or in that system or component. Do not exceed the shipping and storage temperature gradient of 45°F/hr (25°C/hr).
- To facilitate environmental stabilization, open both front and rear cabinet doors.

## Steps to unpack and setup cabinet

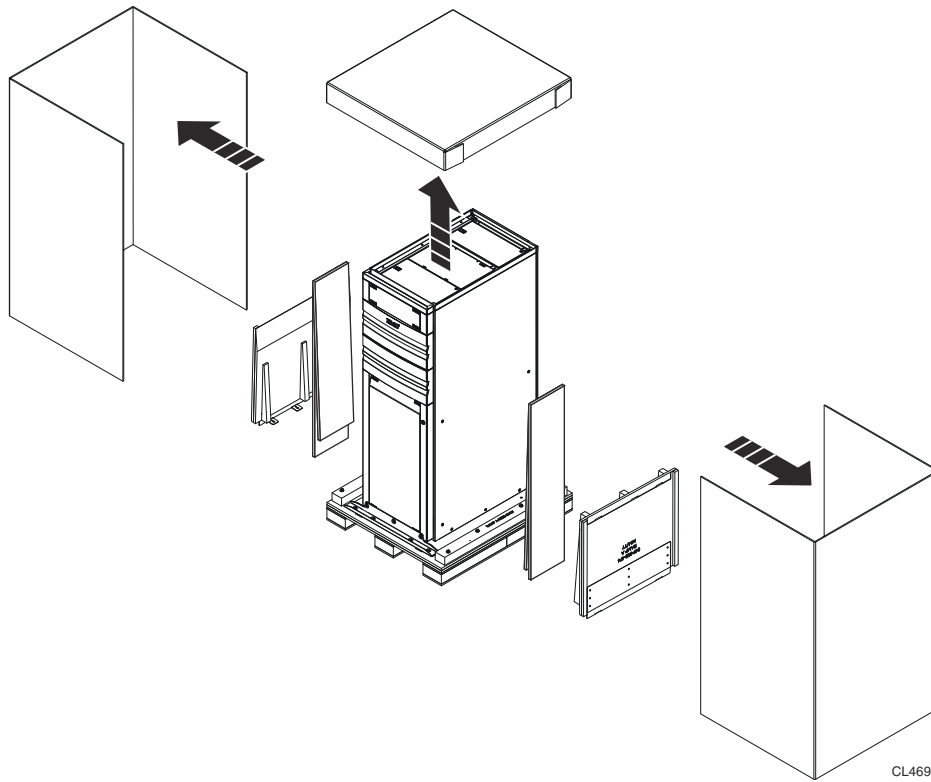
The steps to unpack, setup and repackage the shipping material are listed in the following table:

Step	Task
1	<a href="#">Remove the ramp and shipping material from the cabinet</a> on page 3
2	<a href="#">Remove the cabinet shipping brackets</a> on page 5
3	<a href="#">#unique_10</a>
4	<a href="#">Roll the cabinet down the ramp</a> on page 7
5	<a href="#">Position and level the cabinet</a> on page 8
6	<a href="#">Attach AC power input cords</a>
7	<a href="#">Attach (optional) brackets</a> on page 11
8	<a href="#">Install the lower trim strip</a> on page 12
9	<a href="#">Ground the cabinet</a> on page 13
10	<a href="#">Repackaging shipping material (2-piece ramp kits only)</a> on page 14

## Remove the ramp and shipping material from the cabinet

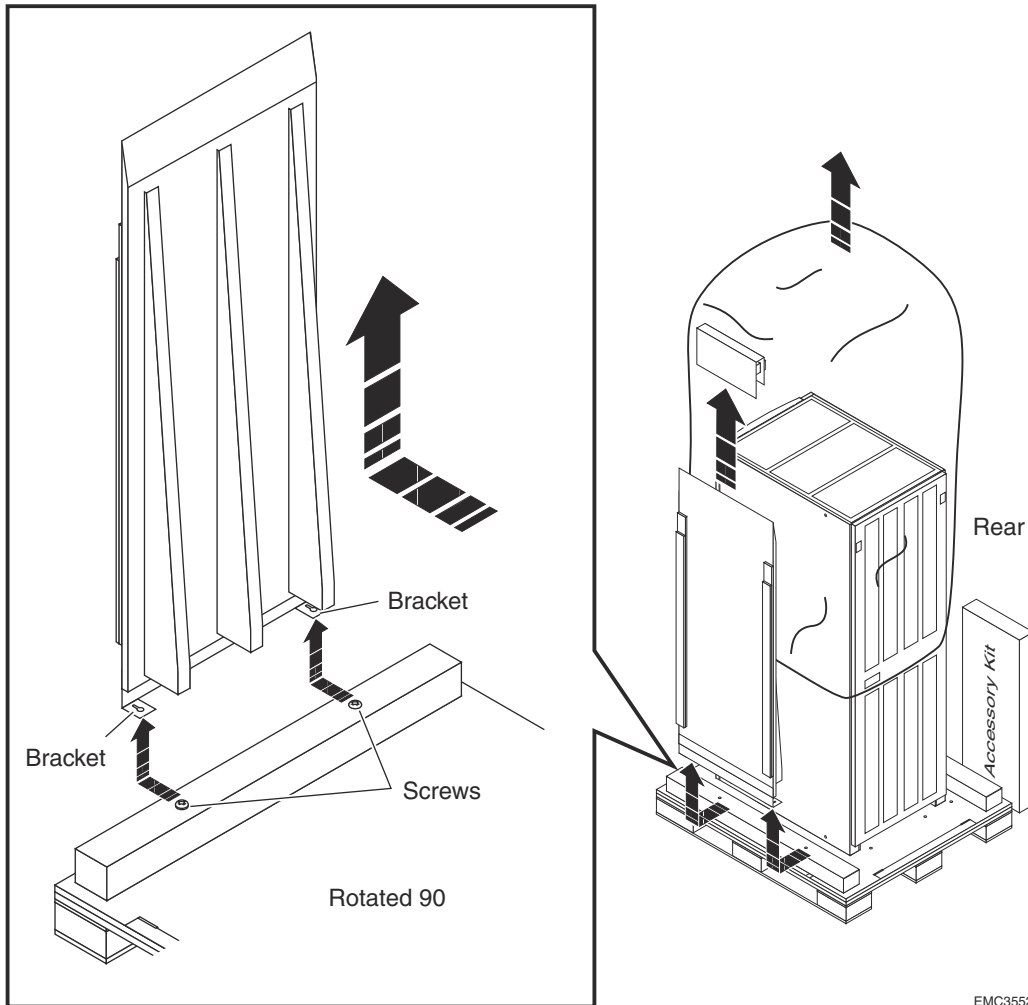
**Steps**

1. Remove any boxes and other material from the cabinet sides.



CL4691

2. Do not pull a ramp down from the top. To release the ramp from the pallet, grasp the ramp, pull it straight back toward you, then pull it straight up to free it from the screws.



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3. Remove the plastic covering from the cabinet.

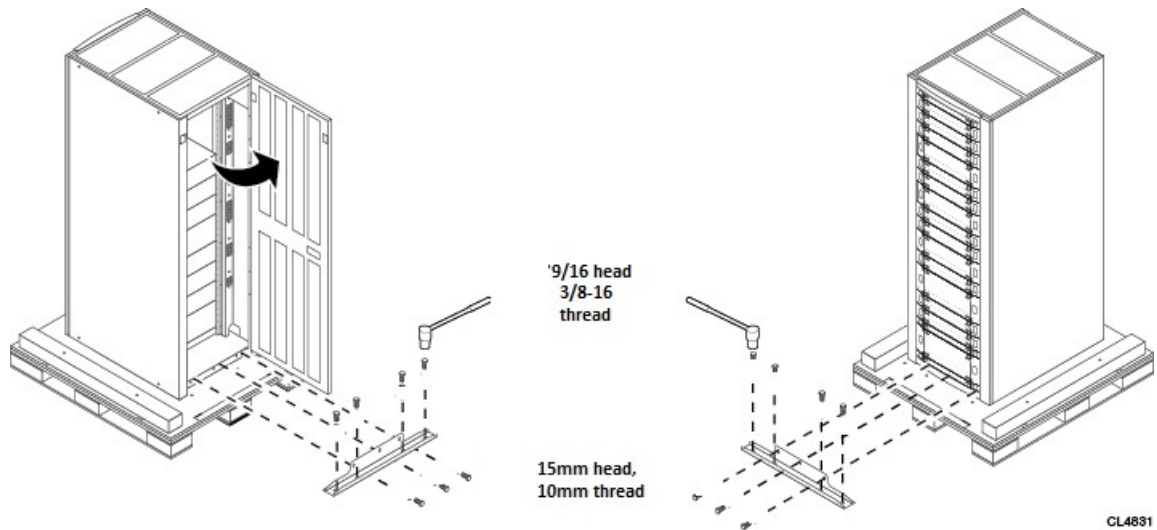
## Remove the cabinet shipping brackets

### Steps

1. At the rear of the cabinet, remove the rear shipping bracket, by removing the bolts that go through the bracket to the cabinet and into the pallet.
2. At the front of the cabinet, remove the bottom cabinet bezel, if necessary. Pull the bezel straight out to remove it.
3. Remove the bolts that attach the cabinet to the front shipping bracket. You can leave the front bracket attached to the shipping pallet.

### **i** NOTE:

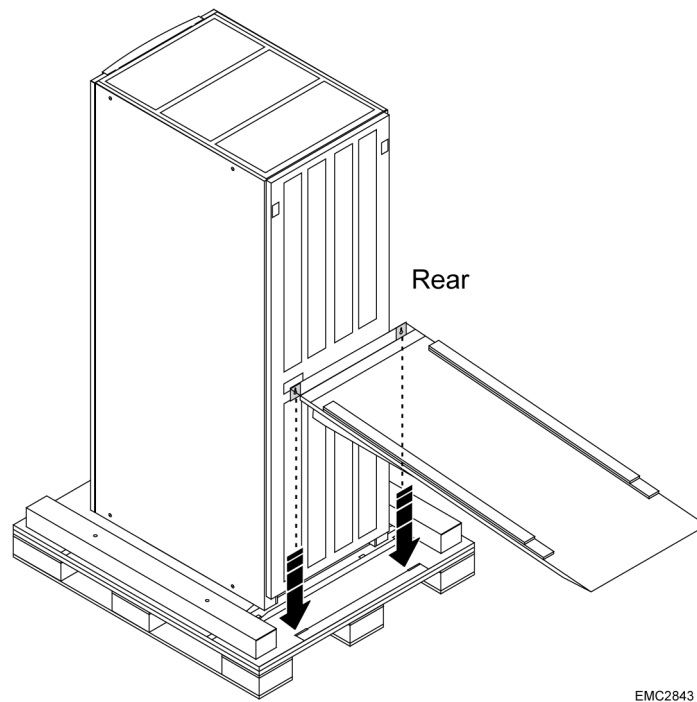
**Save the bolts. You may need them later to install optional stabilizer brackets.**



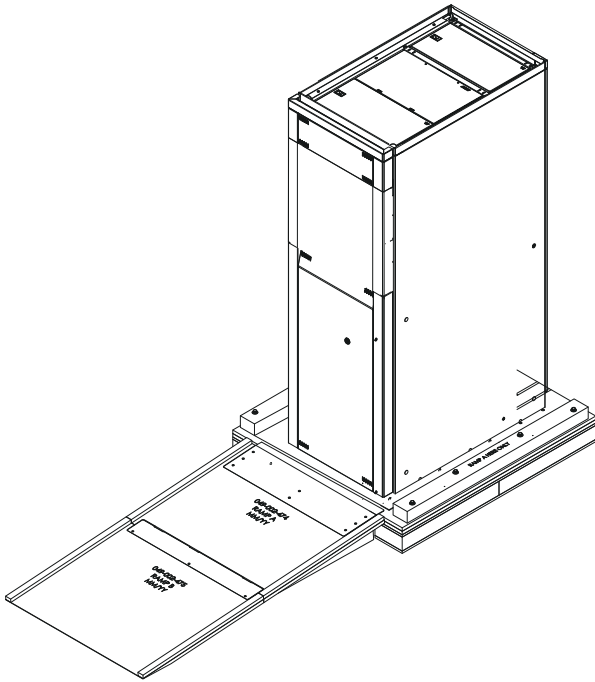
## Attach the unloading ramp

### Steps

1. Insert the ramp brackets into the pallet notches in the rear of the pallet.



2. If your shipment includes a two-piece ramp, attach part A to the pallet and part B to part A.

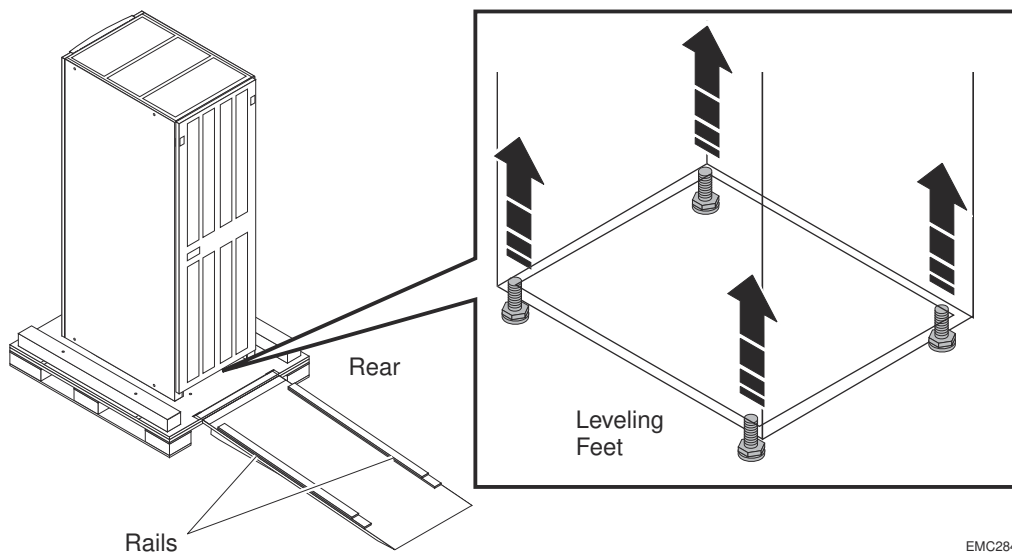


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## Roll the cabinet down the ramp

### About this task

**i** **NOTE:** Make certain the leveling feet are secured in the UP position before moving the cabinet. Secured feet allow the cabinet to roll off the ramp and into position. If you need to adjust the leveling feet, use the 6mm hex key (top access) or an adjustable wrench (bottom access) to turn the feet counter-clockwise. This raises them to the UP position.



EMC2845

### **⚠** WARNING:

The cabinet is heavy. Make certain you have sufficient help and secure footing before rolling the cabinet onto the ramp.

**ATTENTION!** L'armoire est lourde. Assurez-vous d'obtenir l'aide d'une personne et d'avoir un point d'appui sûr avant d'installer l'armoire sur la rampe.

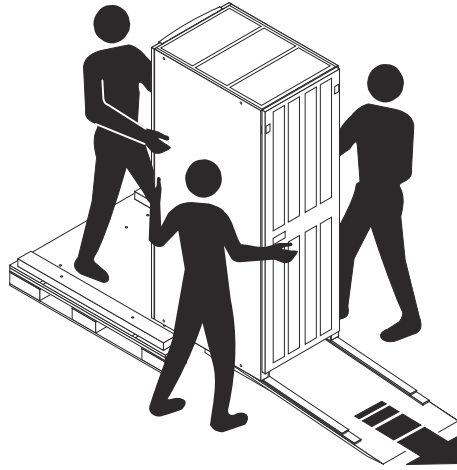
**ACHTUNG!** Das Gestell ist schwer. Versichern Sie sich, dass Sie genügend Hilfe haben und dass das Fundament gesichert ist, bevor Sie das Gestell auf die Rampe rollen.

**ATTENZIONE!** Poiché il cabinet è molto pesante assicurarsi di essere in un numero sufficiente di persone e di avere un appoggio sicuro prima di spingerlo sullo scivolo.

**ADVERTENCIA!** El bastidor es pesado. Asegúrese de contar con ayuda suficiente y de tener un apoyo seguro antes de colocar el bastidor en la rampa.

**WARNING:** Balance the cabinet from the sides; do not grasp the plastic bezels or other components on the front of the cabinet.

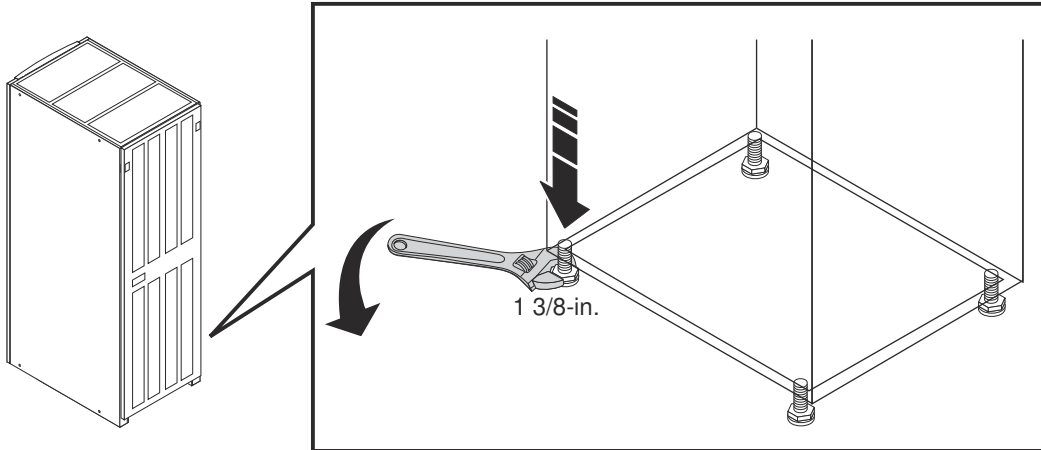
DO NOT STAND IN FRONT OF THE CABINET



EMC2846

## Position and level the cabinet

About this task



EMC2847

## Power requirements

Depending on the cabinet configuration and input ac power source, single or three-phase, the cabinet requires two to 12 independent power sources. To determine your site requirements, use the published technical specifications and device rating labels. This will help provide the current draw of the devices in each rack. The total current draw for each rack can then be calculated. For Dell EMC products, visit the "Dell EMC Power Calculator" on the web at <http://powercalculator.dell.com>.

**Table 1. Single-phase power connection requirements**

Specification	North American 3 wire connection (2 L and 1 G) <sup>a</sup>	International and Australian 3 wire connection (1 L, 1 N, and 1 G)
Input nominal voltage	200 - 240 V ac +/- 10% L - L nom	220 - 240 V ac +/- 10% L - L nom











**Table 1. Single-phase power connection requirements (continued)**

Specification	North American 3 wire connection (2 L and 1 G) <sup>a</sup>	International and Australian 3 wire connection (1 L, 1 N, and 1 G)
Frequency	50 - 60 Hz	50 - 60 Hz
Circuit breakers	30 A	32 A
Power zones	Two	Two
Power requirements at site (minimum to maximum)	<ul style="list-style-type: none"> <li>One to six 30 A, single-phase drops per zone</li> <li>Each rack requires a minimum of two drops to a maximum of 12 drops. This will be determined by the system configuration and the power needs for that configuration.</li> </ul>	

a. L = line phase, N = neutral, G = ground

**Table 2. Single-phase AC power input connector options**

Single-phase rack connector options	Customer AC source interface receptacle	Site
 NEMA L6-30P	 NEMA L6-30R	North America and Japan
 Russellstoll 3750DP	 Russellstoll 9C33U0	North America and Japan
 IEC-309 332P6	 IEC-309 332C6	International
 CLIPSAL 56PA332	 CLIPSAL 56CSC332	Australia

**Table 3. Three-phase AC power connection requirements**





Specification	North American (Delta) 4 wire connection (3 L and 1 G) <sup>a</sup>	International and Australian (Wye) 5 wire connection (3 L, 1 N, and 1 G)
Input nominal voltage	200 - 240 V ac +/- 10% L - L nom	220 - 240 V ac +/- 10% L - N nom
Frequency	50 - 60 Hz	50 - 60 Hz
Circuit breakers	50 A	32 A
Power zones	Two	Two
Power requirements at site (minimum to maximum)	North America (Delta): <ul style="list-style-type: none"> <li>One to two 50 A, three-phase drops per zone</li> <li>Each rack requires a minimum of two drops to a maximum of four drops. This will be determined by the system configuration and the power needs for that configuration.</li> </ul> International (Wye):	

**Table 3. Three-phase AC power connection requirements (continued)**







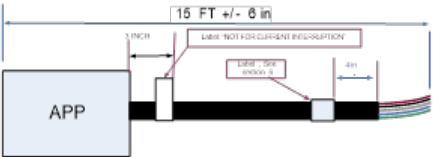
Specification	North American (Delta) 4 wire connection (3 L and 1 G) <sup>a</sup>	International and Australian (Wye) 5 wire connection (3 L, 1 N, and 1 G)
	<ul style="list-style-type: none"> <li>One 32 A, three-phase drop per zone</li> <li>Each rack requires a minimum of two drops to a maximum of four drops. This will be determined by the system configuration and the power needs for that configuration.</li> </ul> <p><b>NOTE:</b> The interface connector options for the Delta and Wye three-phase PDUs are listed in and</p>	

a. L = line phase, N = neutral, G = ground

**Table 4. Three-phase Delta-type AC power input connector options**

Three-phase Delta rack connector options	Customer AC source interface receptacle	Site
 Russellstoll 9P54U2	 Russellstoll 9C54U2	North America and International
 Hubbell CS-8365C	 Hubbell CS-8364C	North America

**Table 5. Three-phase Wye-type AC power input connector options**

Three-phase Wye rack connector options	Customer AC source interface receptacle	Site
 GARO P432-6	 GARO S432-6	International
  L22-30P 30A 277/480V	  L22-30R 30A 277/480V	North America
Fly Lead 	Customer Receptacle	International

# Attach (optional) brackets

We strongly recommend that you secure your cabinet to the floor with stabilizing brackets. Make sure the cabinet is in its final location before attaching the brackets, then use the supplied bolts and mounting holes to attach them to the cabinet and floor

## About this task

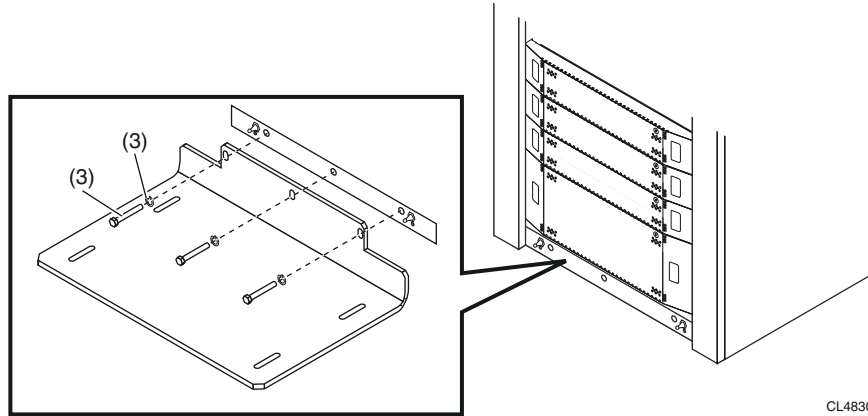


Figure 1. Anti-tip bracket (installed on the front of cabinet)

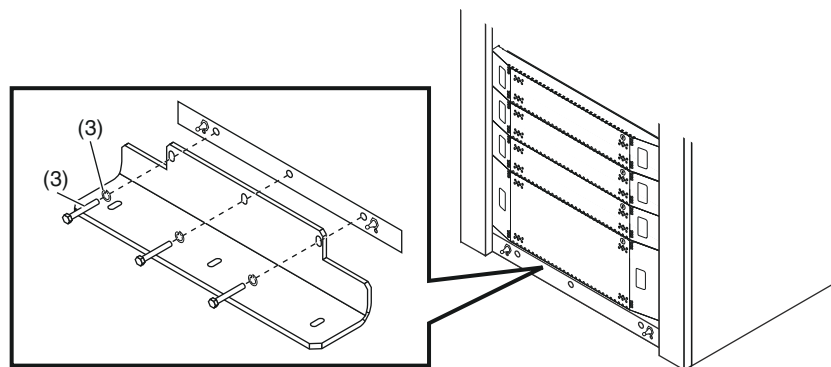


Figure 2. Anti-move bracket (installed on the front and back of cabinet)

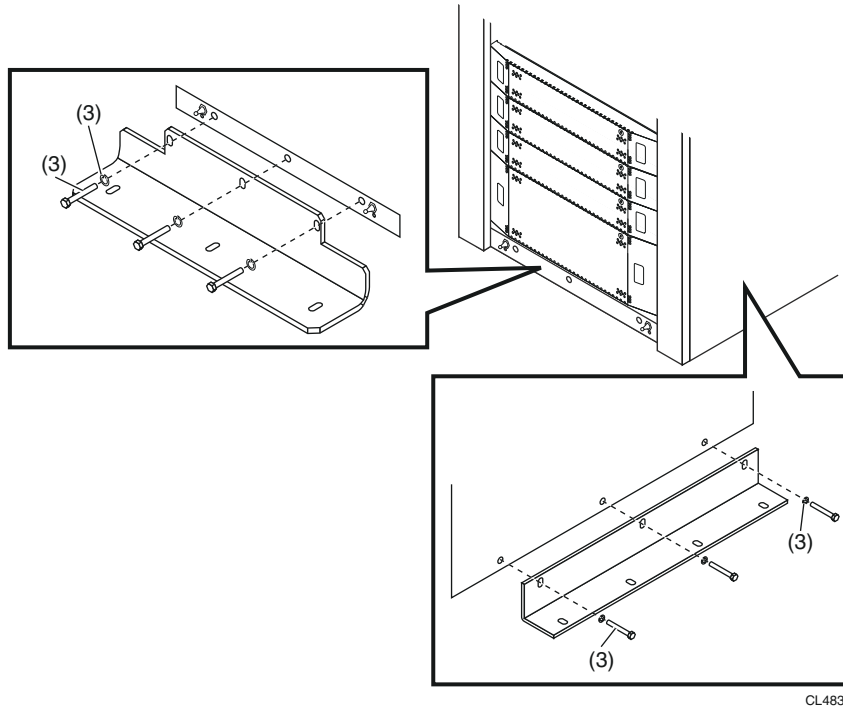


Figure 3. Seismic bracket (installed on the front, back, and sides of the cabinet)

## Install the lower trim strip

This procedure describes how to install the lower trim strip.

### About this task

**NOTE:** If the cabinet is shipped with a front door, there is no need to install the lower front bezel/trim strip.

### Steps

1. Wipe down the lower cabinet with alcohol wipes.
2. On the underside of the lower trim strip, remove the double-sided tape from the velcro fasteners.

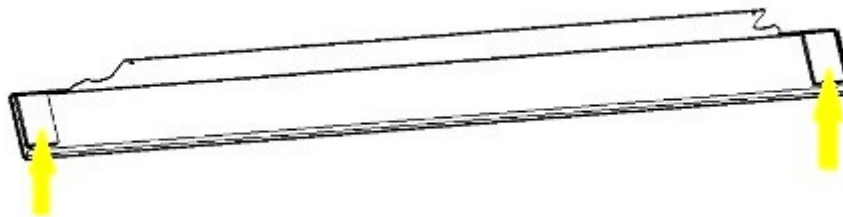


Figure 4. Placement of velcro fasteners on lower trim strip

3. Align the lower trim strip with the lower cabinet and firmly press the bezel onto the cabinet until it adheres to the cabinet.

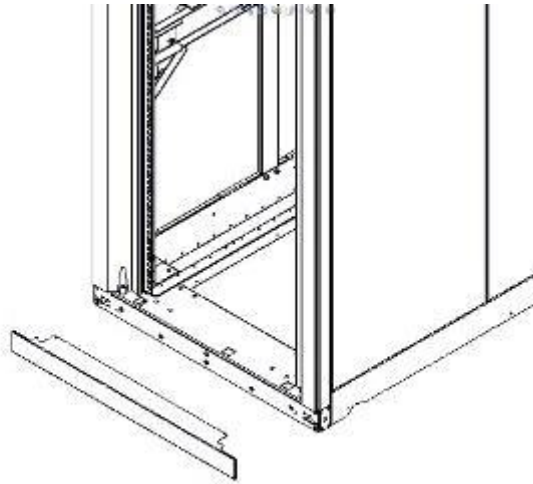


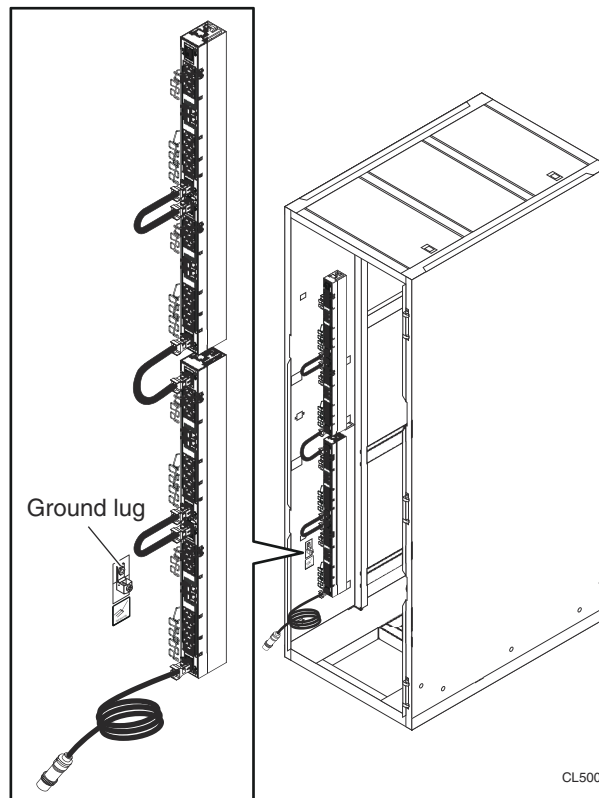
Figure 5. Attaching lower trim strip

## Ground the cabinet

Equipment correctly installed within the cabinet is grounded through the AC power cables and connectors. In general, supplemental grounding is not required.

### About this task

If your site requires external grounding (for example, to a common grounding network beneath the site floor), you can use the grounding lugs provided on each of the cabinet's lower power distribution panels (PDP).



CL5003

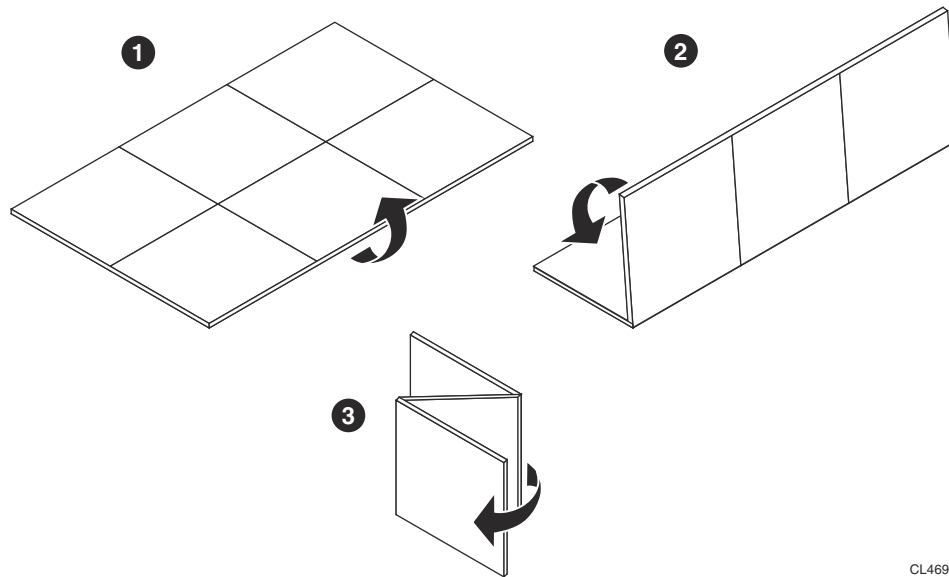
# Repackaging shipping material (2-piece ramp kits only)

## About this task

Follow these steps to repackage the shipping material:

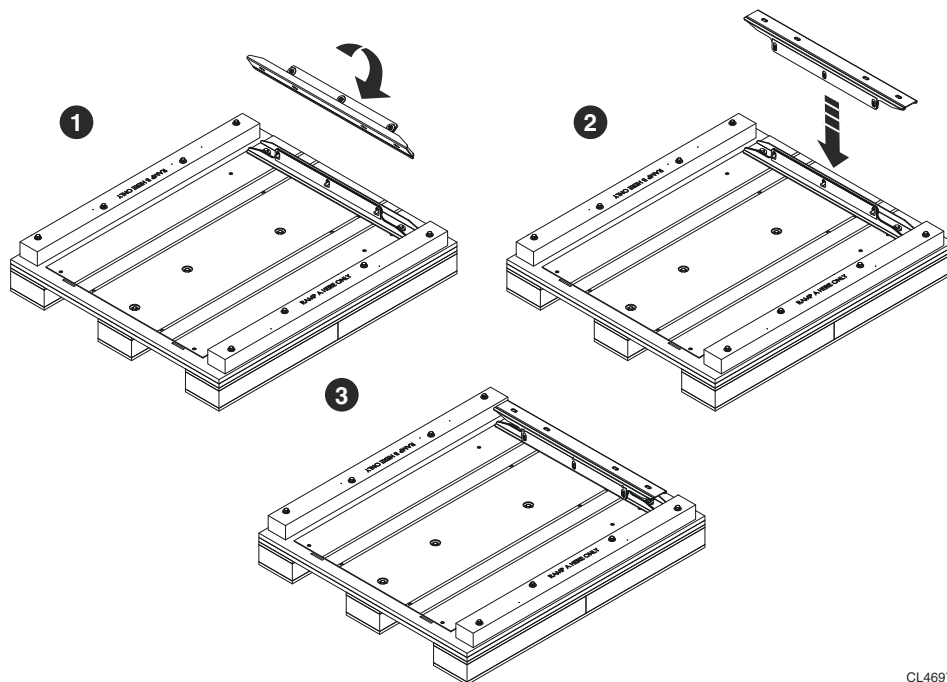
## Steps

1. Lay each of the outer sleeves flat, then fold it lengthwise before collapsing the three sections, as shown:



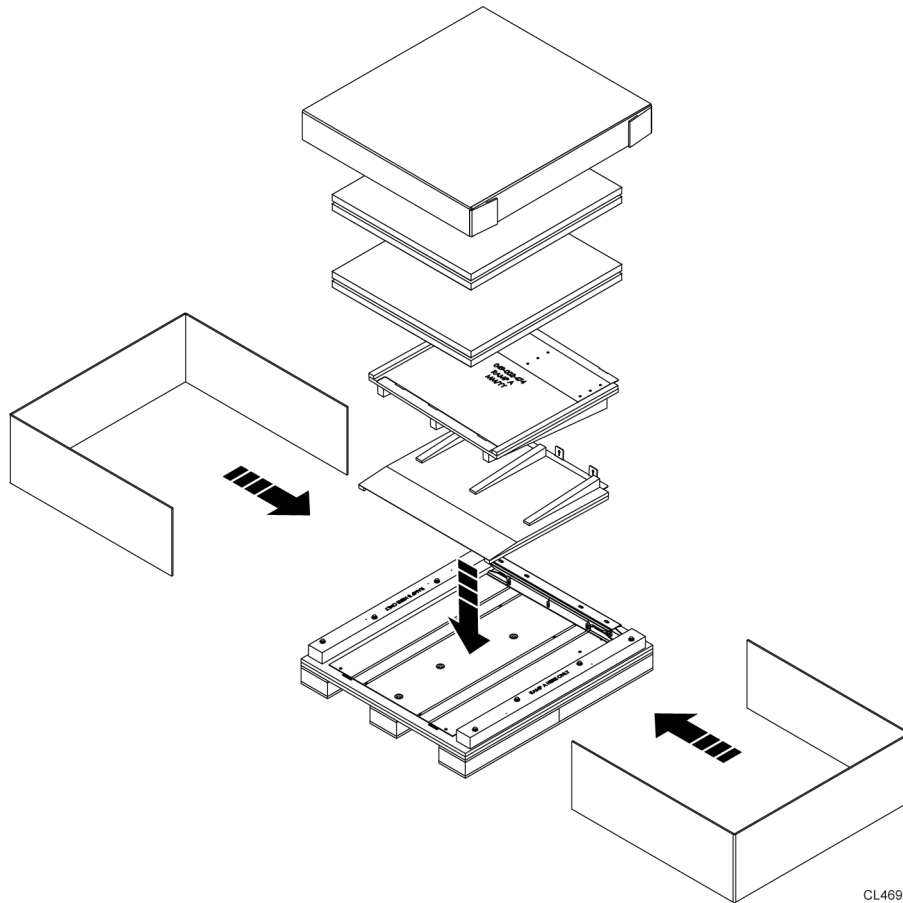
CL4690

2. Stack the shipping brackets on the pallet, as shown:



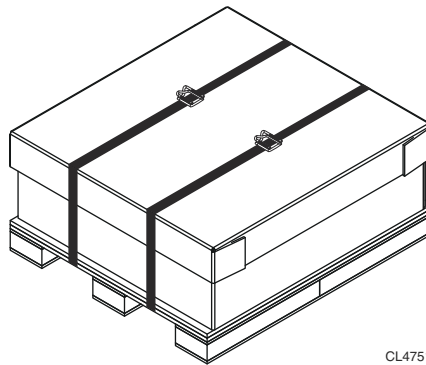
CL4697

3. Place ramp section B upside-down on the pallet, then stack section A, right-side up.
4. Stack the two folded outer sleeves above the ramp sections.
5. Apply the two collar sections to either side of the pallet; hold them in place with the package hood.



CL4696

6. Band the unit with shipping straps as shown:



CL4751

7. Use the following information to determine how to return the repackaged shipping material:

- If the carrier unpacked the cabinet, the carrier handles the return shipment to the packaging supplier.
- If the cabinet was unpacked after delivery, refer to the contact number attached to the pamphlet for repacking. This contact is the carrier network for the initial shipment and they will follow the same process as for the initial shipments.

## If you need help

For questions about technical support and service, contact your service provider.

For questions about upgrades, contact your sales office.

More information about this and other products is available on the online support website.

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.