Pillar Axiom

Rack Unpacking Instructions

ORACLE

PILLAR AXIOM

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Step 1–Remove the Crate From the Truck

1 Keep the crate as upright as possible.

- For raised docks, use a pallet jack or fork lift.
- For on-grade docks, use a pallet jack or fork lift and the lift gate.

  Important! The lift gate must have a mininum rating of 900 lb (408 kg).

2 Remove the crate from the truck.

Step 2–Check and Receive the Crate

1 Check the shock and tilt indicators on the side of the crate.

Figure 1 Shock and tilt indicators

Legend	
1	Shock indicator registers red when handled roughly.
2	Tilt indicator registers red when tipped 90°.

2 (Optional) Note on the Bill of Lading any problems.

Possible problems:

- Shock or tilt indicator is missing or is red.
- The shipping crate is damaged.

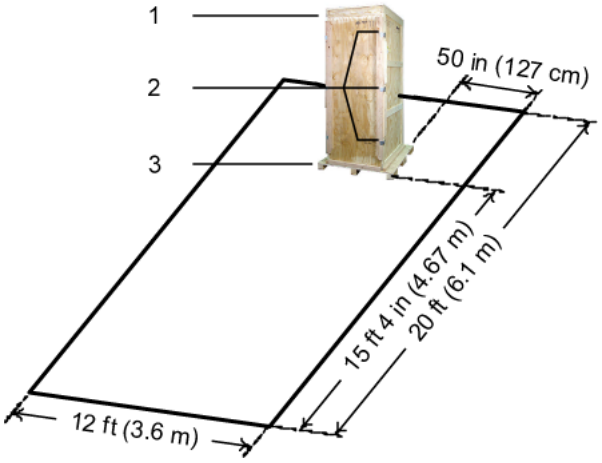
Important! Notify the carrier of freight damage within 72 hours. Check your Terms of Sale for who notifies the carrier. Record all damage. Call the Pillar World Wide Customer Support Center at 1-877-4PILLAR (1-877-474-5527) to open a service request for future insurance claims.

3 If the crate passes inspection, accept delivery.

Step 3–Open the Shipping Crate

Important! Open the shipping crate on a hard, level surface in an unobstructed area that is at least 12 ft x 20 ft (3.6 m x 6.1 m).

Figure 2 Floor plan for unpacking a rack



Legend		
	1 Crate	3 Pallet
	2 Ramp cam locks (3 each side)	

1 Open the three cam locks on each side of the ramp.

Figure 3 Cam lock in the open position

2 Remove the ramp.

3 Remove the foam protectors from the ramp.

4 Remove the battery and anti-tip bracket packages and Installation Kit.

System installers will need these items later.

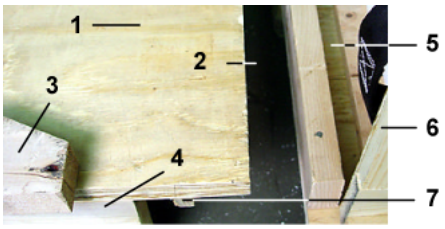
5 Remove the wing nuts from the rack restraint board and set them and the restraint board aside.

Figure 4 Rack restraint board

Legend		
	1 Wing nuts / hanger bolts	3 Shock absorber foam
	2 Rack restraint board	4 Pallet

6 Put the ramp on the floor with the ramp support down.

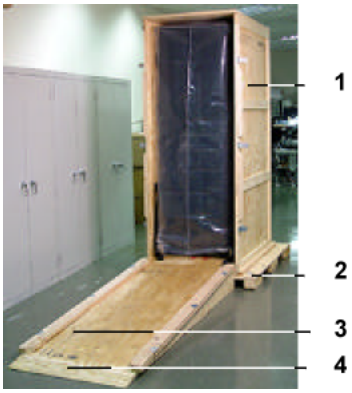
Figure 5 Ramp components (top view)



Legend		
	1 Ramp	5 Interlock groove
	2 Floor	6 Crate side wall
	3 Guide rail	7 Interlock key
	4 Ramp support	

7 Set the ramp onto the crate base so that the interlock key drops into the crate's interlock groove.

Figure 6 Ramp attached to the crate



Legend		
	1 Crate	3 Ramp
	2 Pallet	4 Tapered edge

Step 4–Remove the Rack

Danger Catching a fully loaded rack that tips over can result in death or serious injury. If the rack begins to tip, do not catch it.

Warning A fully populated Pillar 42 U rack without any Bricks installed weighs about 600 lb (272 kg). Material handling systems (such as levers, slings, lifts, and so on) must be used. When such systems are not practical, use specially trained persons or services to lift or move a fully populated rack.

Caution The pallet base and the ramp's tapered edge must be at the same elevation; otherwise, the tapered edge will fail when the rack rolls down the ramp. Components inside the rack can be damaged.

1 Use a quick, sharp pull to detach the extraction straps from the crate.

Figure 7 Rack extraction straps

Legend	
1	Polyvinyl bag
2	Extraction straps

2 Pull the extraction straps to start the rack onto the ramp.

3 With several persons, carefully and slowly roll the rack down the ramp.

4 Remove the polyvinyl bag from the rack and discard.

5 Inspect the rack and its components for damage.

Tip:

Place the extraction strap and polyvinyl bag inside the crate. Reattach the ramp to the crate. Store the crate upright. If you need to ship the racked system back to Pillar Data Systems on a Return Materials Authorization (RMA), use this crate with the shock and tilt indicators attached and in good order.

Step 5–Move the Rack Into the Data Center

Important! Do not use a fork lift to move an uncrated, populated rack. Lifting a rack with a fork lift damages it and possibly the hardware components.

Be aware of the following when you move the rack:

- The center of gravity of a populated 42 U rack is closer to the front of the rack than to the back.
- Do not move a loaded rack over steep ramps. Use an elevator instead.

  Warning When you move a rack, keep its back in the lead. However, on a ramp, the rack's front should always face up the ramp. Be sure the slope is less than 2° to keep the rack from toppling.

- Do not exceed elevator load ratings when moving Pillar racks. Pillar racks with everything installed except for Brick storage enclosures weigh about 600 lb (272 kg).
- The dimensions of a Pillar rack are:

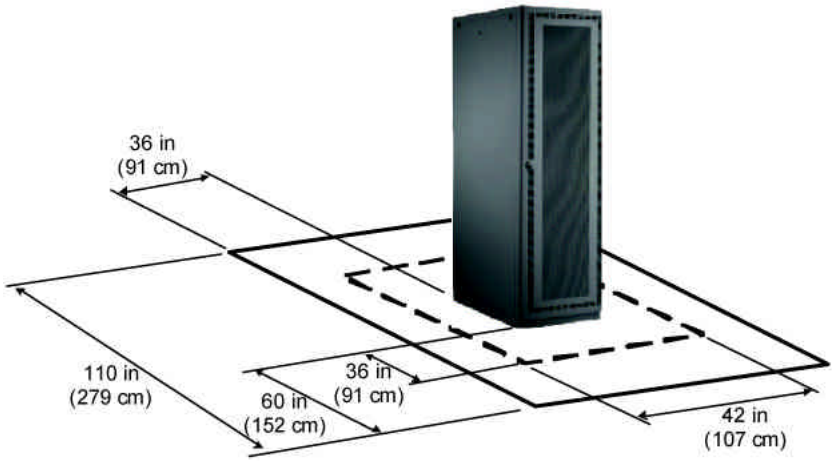
  Height: 83 in (211 cm)

  Width: 24 in (61 cm)

  Depth: 43 in (110 cm)

  The following illustration shows the minimum clearance for system installation.

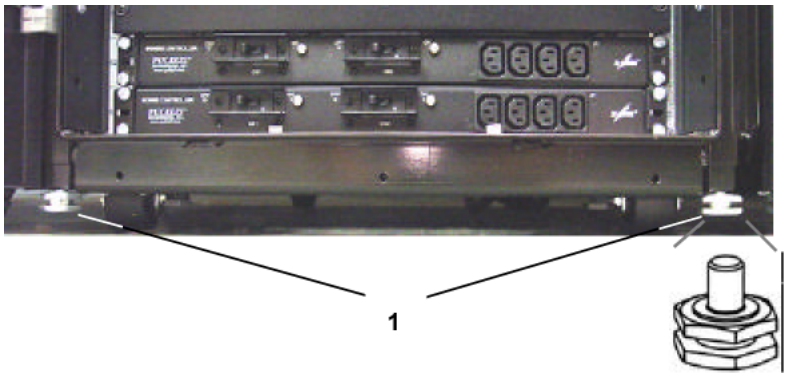
Figure 8 Clearance for rack installation



1 Unscrew the four anchor bolts and set them aside.

Important! Keep the anchor bolts in a safe place. Installers will need them to attach the anti-tip brackets later.

Figure 9 Anchor bolts screwed into the rack frame



Legend	
1	Anchor bolts

2 Plan the path that you will take to move the rack into the data center.

3 Carefully move the rack to the data center.

For details about the remainder of the installation, refer to the *Hardware Installation Guide*.

Note: Pillar Data Systems reserves the right to change the specifications and content in this guide at any time.