ADJUSTABLE RAIL SERVERRACK AND QUADRARACK®

Safety Information

⚠️ **WARNING**: To reduce the risk of personal injury or damage to equipment, the rack must be bolted to the floor. Two or more racks can be bayed to enhance stability, but each rack must be anchored to the floor.

⚠️ **WARNING**: Improper use of this product may lead to serious injury or death. Read and understand all instructions for proper installation and use of this product.

⚠️ **WARNING**: Be sure to use sufficient personnel to safely assemble and install the rack.

⚠️ **WARNING**: Do not load equipment into the rack prior to it being bolted to the floor, as it could tip over.

⚠️ **WARNING**: For protection of the equipment and personnel, ground each rack individually to a busbar or signal reference grid.

Always load heavier equipment, such as a UPS, at the bottom of the rack. Extend only one server at a time. Unload equipment from the rack before moving it.

Intended Use

Install this rack in Restricted Access Locations only, such as a data center. Use indoors only, in environmentally controlled areas; do not use outdoors, in harsh environments or in air-handling spaces. Use this rack for computer equipment, including servers and peripherals. Allow only qualified service personnel to use this rack.

Tools Required

10mm open end wrench

Included Hardware

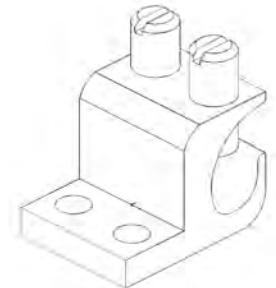|		
18 each 8 mm x 16 mm Bolt	26 each 8mm Flange Nut	10 each 8mm Lock Washer
2 each 6mm Lock Nut	2 each 8 mm x 20 mm bolt	1 each Grounding Block

1 tube Antioxidant Compound

50 each 12-24 x 5/8 Screws, For QuadraRack only

50 each 12-24 Cage Nuts, For ServerRack only
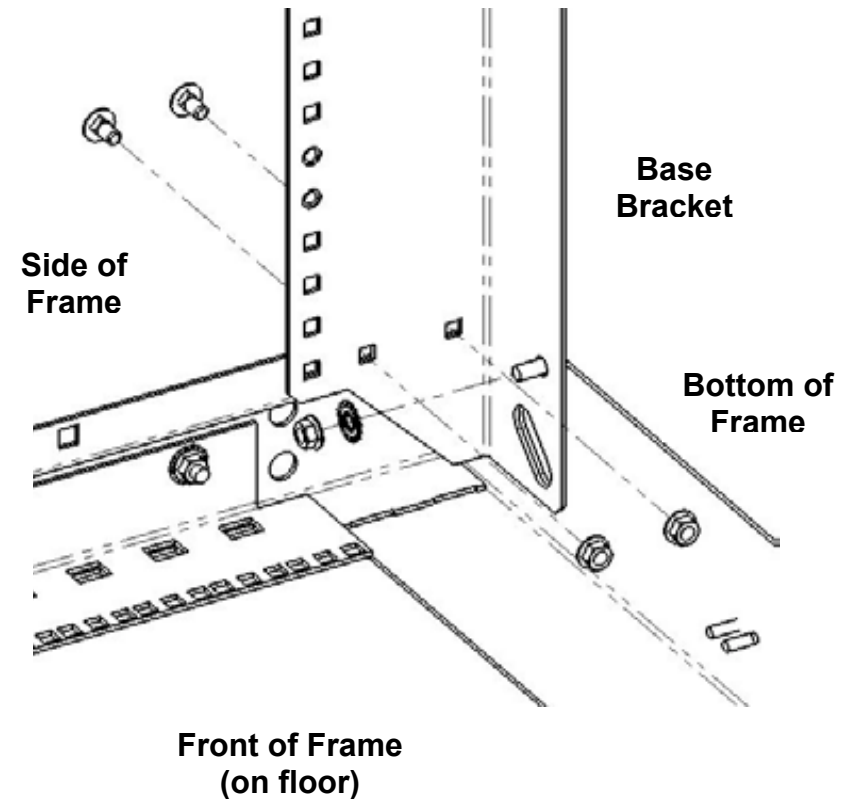
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13mm socket wrench
Pliers (to install cage nuts in Adjustable ServerRack)

<u>Assembly Sequence</u>
1. Lay one frame down on the floor with the rear flange facing up.

2. Install the two base brackets to the frame. Use an 8 mm star lock washer and 8 mm nut on each stud (located on the bottom of the frame). <u>Important: the star washer must be used to ensure electrical bonding throughout the entire rack frame.</u> Install two 8 mm x 16 mm bolts and 8 mm nuts from the outside of the frame through the rear frame flange. Do not fully tighten the nuts, leave them finger tight only.
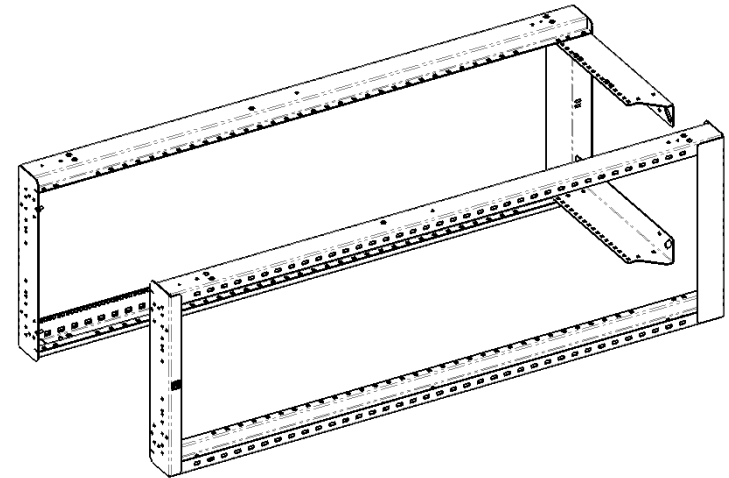
Base Bracket

Side of Frame

Bottom of Frame

Front of Frame (on floor)

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3. Turn the assembly onto its side. Attach the remaining frame to the base angles (see step 2). Leave hardware finger tight.

4. Attach the two top angles in the same way as the base angles. Use an 8 mm star lock washer and 8 mm nut on each stud (located on the top of the frame). Important: the star washer must be used to ensure electrical bonding throughout the entire rack frame. Only one 8 mm x 16 mm bolt and 8 mm nut are used at each end of the top angle to attach the angle to the side of the frame through the rear frame flange.

5. Tighten all nuts at the base and top. The rack can now be stood up on its base.

   Note: If the cable waterfall will be mounted on the rack, it may be easier to mount it while the rack is lying down. See page 6 for mounting instructions.
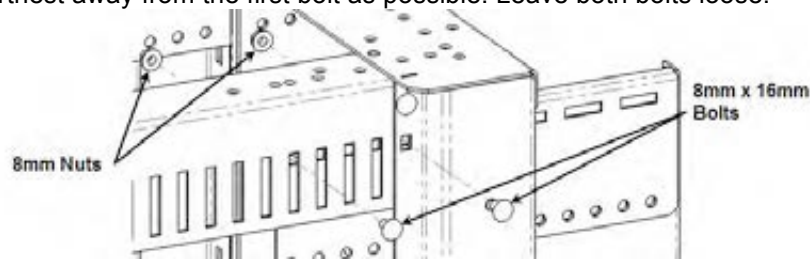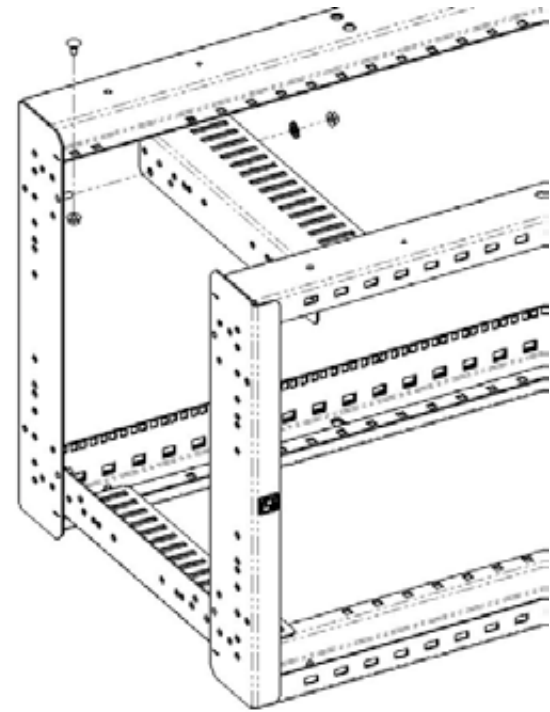
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6. With the frame upright, position one of the rear rails at the desired depth. Install an 8 mm x 16 mm bolt and 8 mm nut through the top angle; use the slot located at the end of the mounting rail support. Install another bolt and nut at a slot furthest away from the first bolt as possible. Leave both bolts loose.
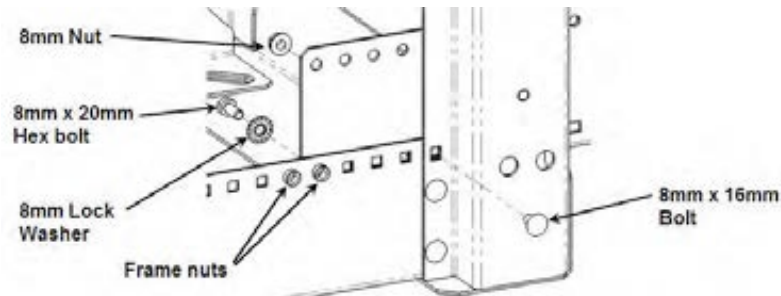

7. Install an 8 mm x 20 mm hex bolt and 8 mm star lock washer through the lower rail support and into one of the frame nuts on the lower frame bracket; this bolt should be in vertical alignment with the first upper bolt. Important: the star washer must be used to ensure electrical bonding of the rail to the frame. Install an 8 mm x 16 mm bolt and 8 mm nut as far as possible from the first bolt; this bolt should be in vertical alignment with the second upper bolt
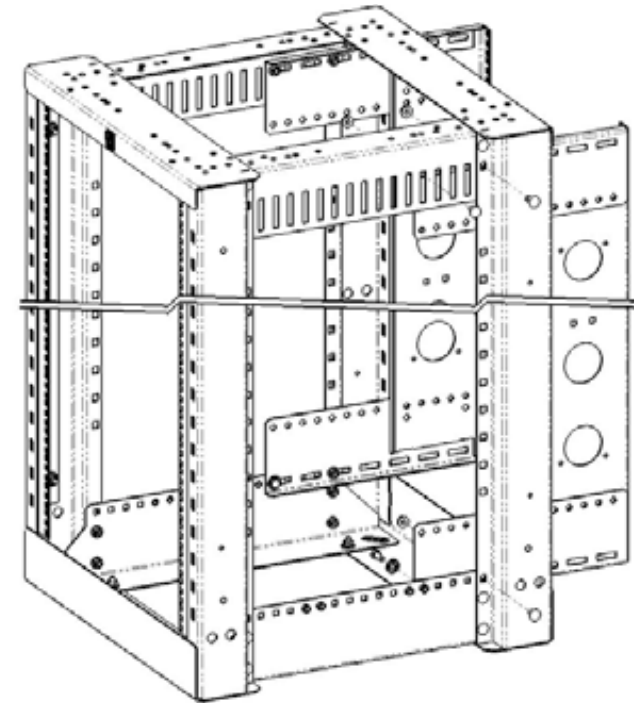
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Set rail depth to final position and tighten all four bolts. Note: If rail is positioned with bolts at the end of the horizontal slots the rail depth will be set at depths of 25mm increments such as 400mm, 425mm, etc.
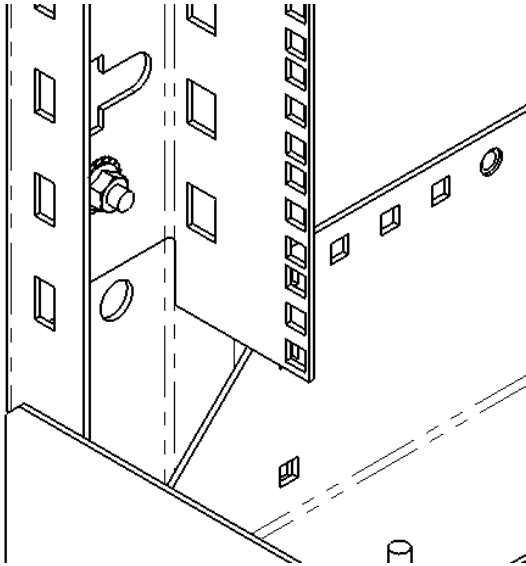
8. The rack is shipped with the front rail installed flush with the front frame flange and the RMU numbers starting at the bottom. The rails can be mounted facing towards the rear for recessed (75mm) equipment mounting. This is recommended when side exhaust switches are mounted; the side frame members will not interfere with the airflow.
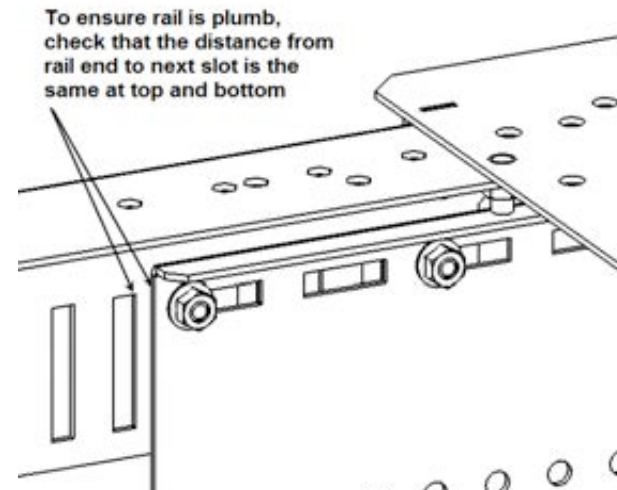
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If you want the RMU numbering to start at the top: remove the rails, turn them over and mount on the opposite side of the frame. Important: the star washers must be used to ensure electrical bonding of the rail to the frame.

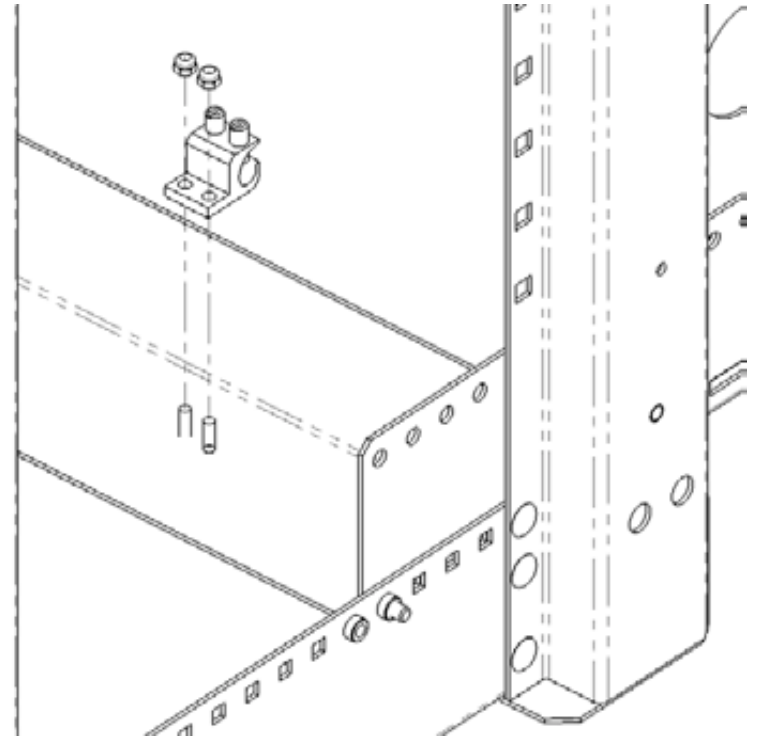To ensure rail is plumb, check that the distance from rail end to next slot is the same at top and bottom

9. Optional grounding block mounting: The grounding block can be mounted to the base of either the front or rear frame. Remove the pa[...] masking material from around the two mounting studs. Apply supplie[...] Antioxidant Joint Compound to exposed steel area. Mount the block t[...] the studs with two 6 mm lock nuts

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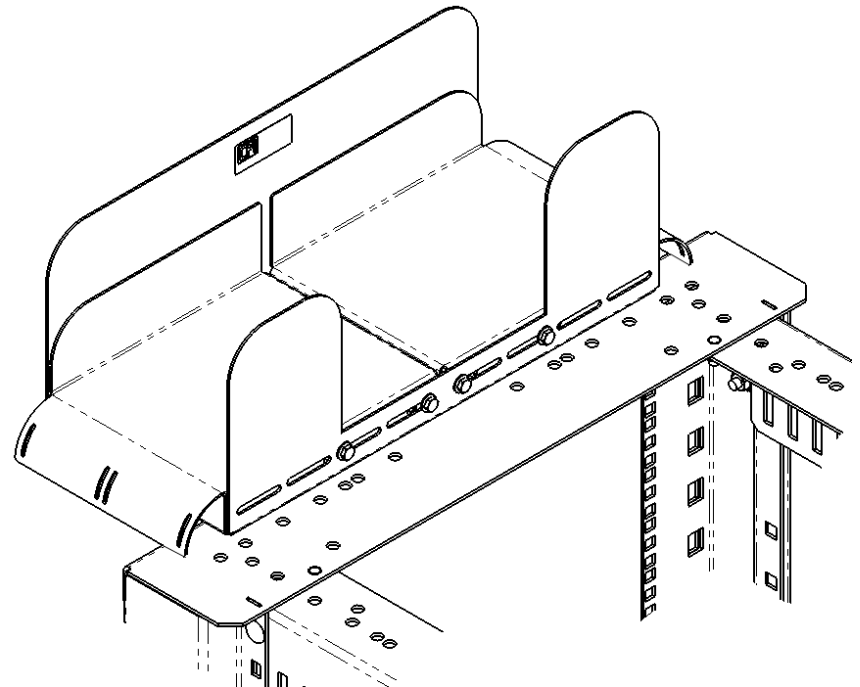**CHATSWORTH PRODUCTS**

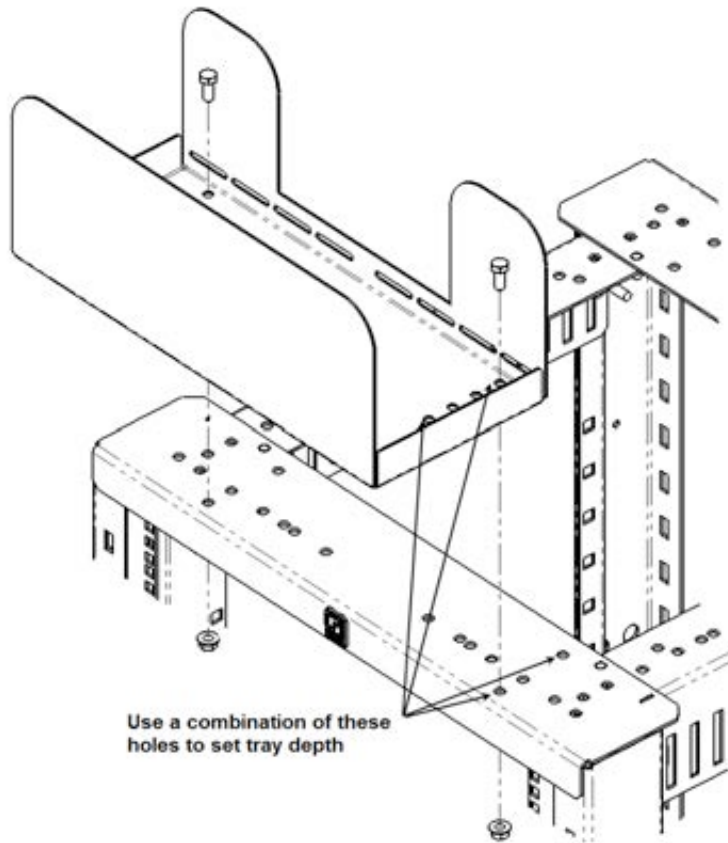# ADJUSTABLE RAIL SERVERRACK AND QUADRARACK®

10. Cable Waterfall Mounting:
   a. Remove the 4 screws that attach the radius brackets to the tray and remove brackets.
   b. Position the tray by aligning one of the 4 holes in the tray with one of the 3 holes in the frame top angle; this will determine the depth (overhang) of the cable waterfall. Attach with two 8 mm x 20 mm hex bolt and 8 mm nut.
   c. Position the radius brackets at the desired width and attach with the 4 screws.

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Optional Versa-Clamp Mounting
Versa-Clamps are included with all of CPI's vertical power strips for cabinets. They can be mounted to inside frame flange or to the rear rails. Use an 8 mm x 16 mm bolt and 8 mm nut provided with the rack

Use a combination of these holes to set tray depth

Vertical Power Strip Mounting
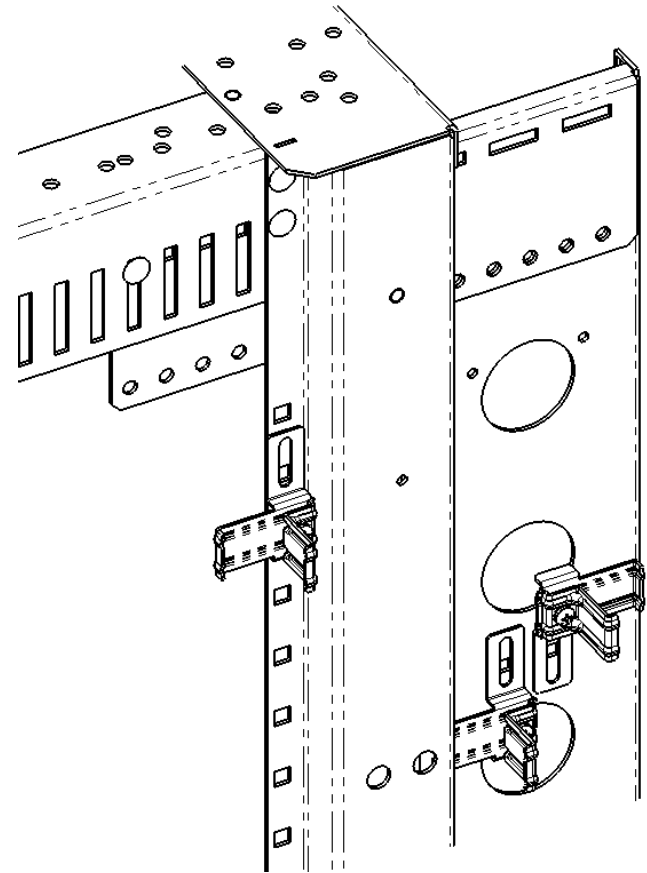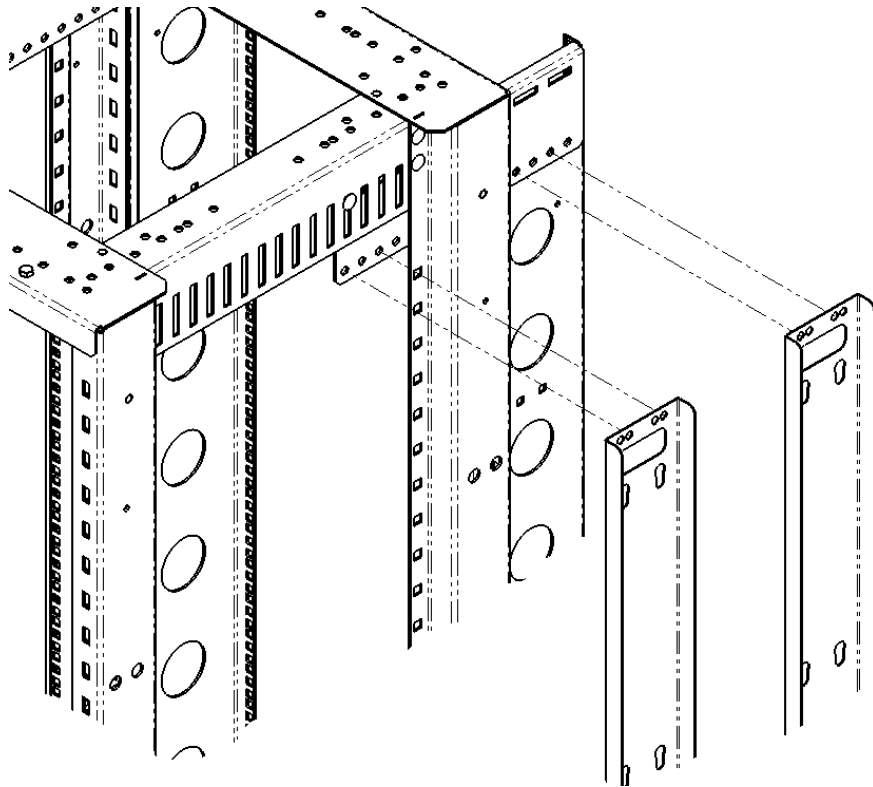
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Optional Dual Vertical Power Strip Manager
This bracket allows mounting of two power strips on the side of the rack. It mounts directly to the rear mounting rails using the hardware provided with the brackets. These can be used on 7' and 8' racks only.

Use part number 34595-C02 for 7' racks
Use part number 34595-C08 for 8' racks

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Optional Cable Management Fingers
  These mount to rectangular slots on the front face of the frames. One sample
  ring section is included with each rack.

      Use part number 15286-001 for 6' racks
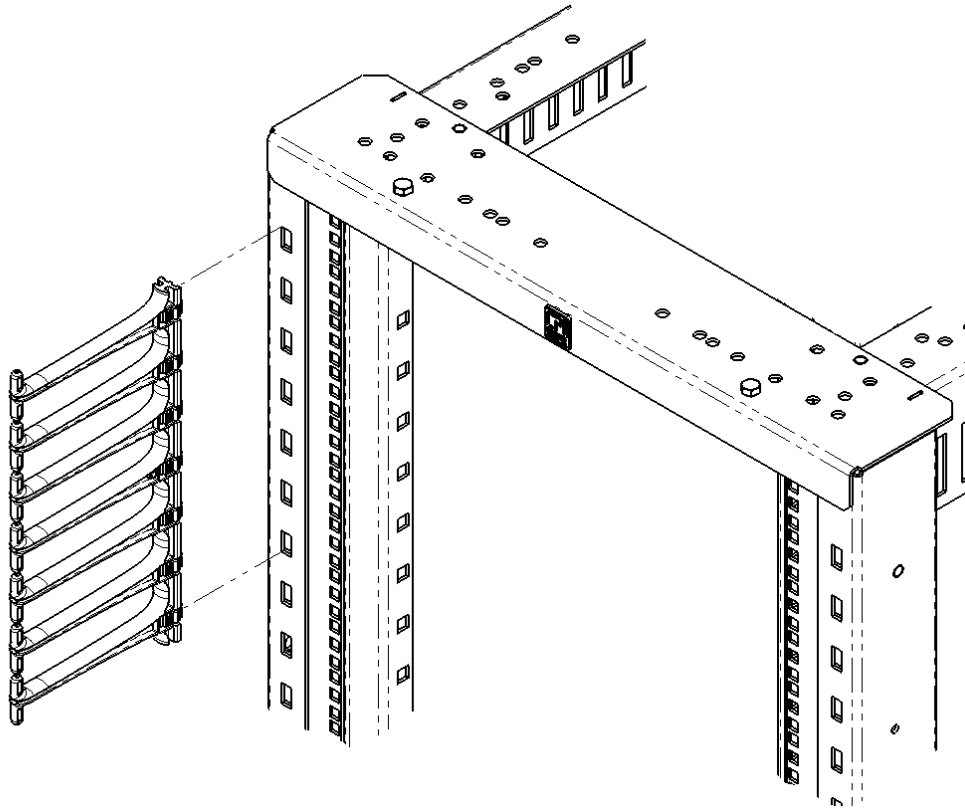   Use part number 15286-003 for 7' racks
      Use part number 15286-015 for 8' racks

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