

Inspired by the Open Compute Project, the KT-2141-121U rack meets the latest Open Rack Standard V1.2. For maximum operational efficiency, all equipment installation and service operations are accessible from the front of the rack. While occupying the footprint of a traditional 19-inch EIA rack, this rack accepts 21-inch equipment providing a higher compute density and storage capacity.

Key Features

- 41 OpenU, Open Frame Rack
- Up to 38U available for DC distribution (with one 3U DC Power Shelf)
- Includes up to two 3U centralized power shelf locations
- Configurable DC bus bar architecture, supports up to 3 DC bus bars
- Supports 1400kg of equipment
- Designed to comply with NEBS Zone 4 seismic requirements (3 racks bolted together with optional seismic kit)
- Heavy duty 3-inch casters for increased mobility
- Heavy duty leveling feet for uneven floors
- "U" number markings on rails for convenient equipment installation and identification
- Cable management built into front vertical uprights
- Inter-Rack cable access ports on front sides of rack
- Conversion Kit available for traditional 19-inch EIA equipment
- Flat, knocked-down packaging for efficient shipping and storage



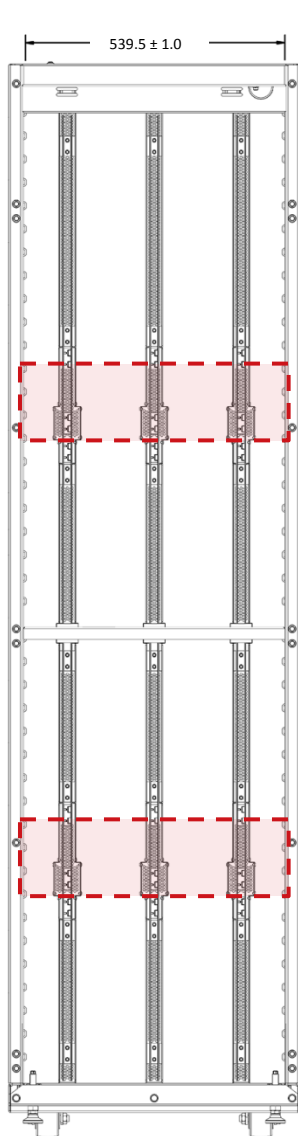
Lite-On Power System Solutions USA
3001 Summit Avenue, Suite 400, Plano, TX 75074
+1 (469) 331-9838
www.liteon-pss.com
email: pss.sales@liteon.com

Lite-On Power System Solutions Taiwan
No. 90, Chien 1 Rd., Chung Ho Dist, New Taipei City 23585
+886 -2-2226181 ext 5026
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email: pss.sales@liteon.com

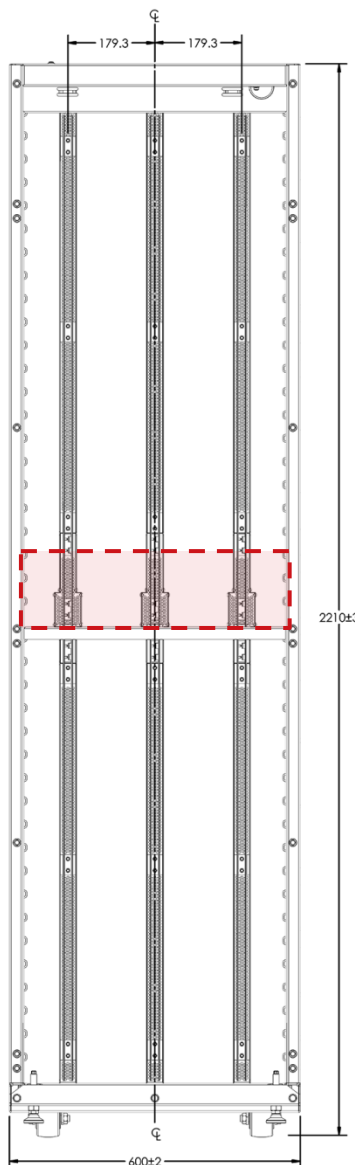
Specifications

Quantity of OU (OpenU) Units	41
OU Height	48 mm
Dimensions (H x W x D)	87.00" x 23.62" x 42.00" (2210 mm x 600 mm x 1067 mm)
Weight (empty)	150 kg
Equipment Weight Capacity: Static	1400 kg
Equipment Weight Capacity: Rolling	1400 kg
Number of DC Bus Bars	Configurable 1 to 3 copper bus bars (standard configuration is 1 or 3 bus bars)
Bus Bar Current Capacity	688.5A maximum for each bus bar (based on a current density of 4.65A/mm ²).
Power Shelf Locations	Up to 2 power shelves (at fixed locations)
Color	Powder Coat Black
Regulatory	Designed to comply with UL60950-1 / EN60950-1:2006 / IEC60950-1
RoHS	Designed to comply with Directive 2002/95/EC
Warranty	3-Year Limited

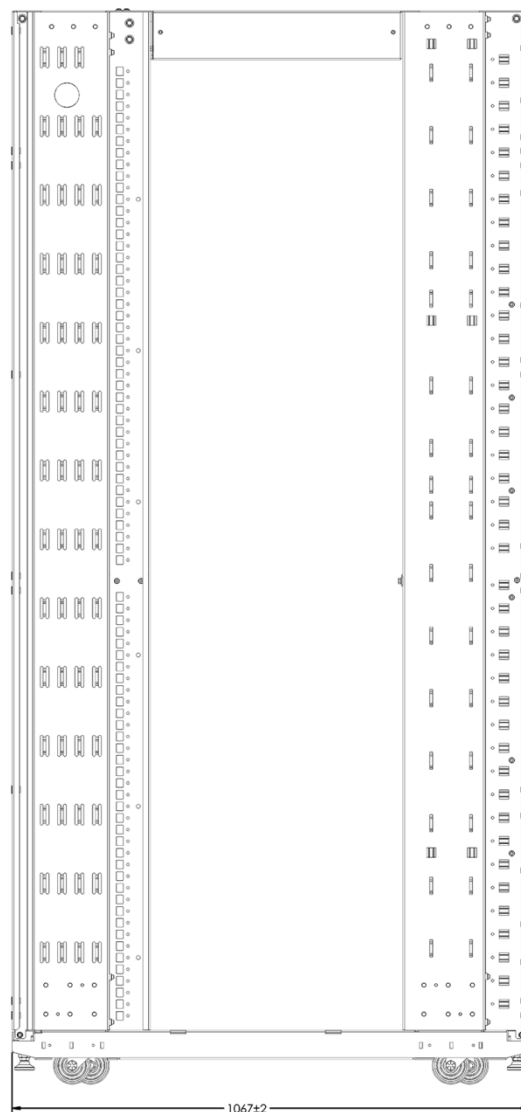
Mechanical



Dual Power Zone
Version



Single Power Zone
Version



Note: Power Shelves are not included with the rack; they are represented in red for illustrative purposes only.

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Optional System Components

The 21-inch Open Compute Rack is a central building block for your data center. The table below provides additional information on the different options available to create a customized solution. Contact your local Lite-On PSS representative for more information and support.

Component	Description
Bus Bars	Bus Bars distribute DC power from Power Shelves
Bus Bar Access Covers	Bus Bar Access Covers provide safety for users and protection for the Bus Bars
IT Support Brackets	Supports IT gear in 1U and 2U increments
Power Shelf Support Brackets	Supports power shelves
Equipment Tray	Supports the weight of switching, or other equipment, in the rack
Side Panels	End-of-row airflow containment panels
Door Kit	Rack Doors for the front or rear (an Extender Kit is required to install rear door)
Extender Kit	Provides a way to extend the depth of the rack to accommodate longer equipment
Zone 4 Kit	Bolt-on kit for GR63 Zone 4 installations.
Rack Baying Kit	Allows multiple racks to be bolted together for stability and GR63 Zone 3 installations.

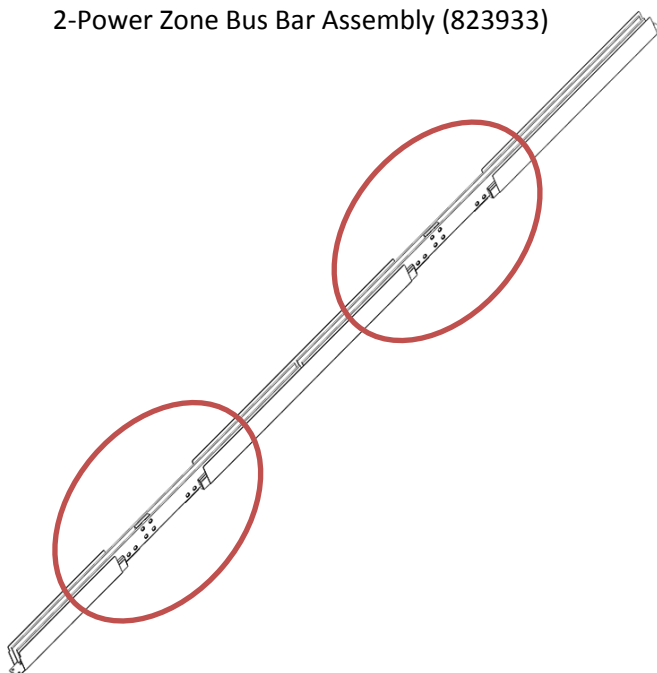
More details about the Lite-On Open Compute Rack System components are described below.

Bus Bars

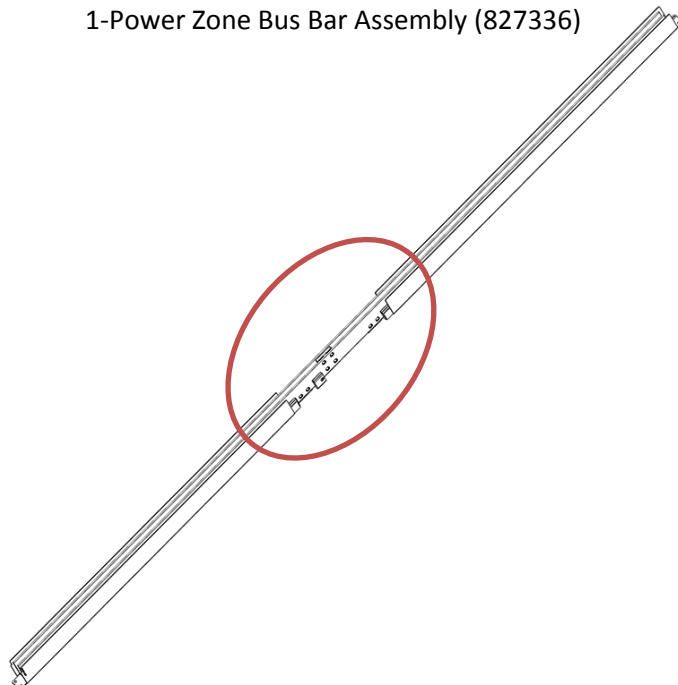
Bus Bars distribute DC power from one or two Power Shelves that are installed into the rack. There are two versions of Bus Bars: 2-Power Zone Bus Bar Assembly (823933) and 1-Power Zone Bus Bar Assembly (827336).

A typical Lite-On 21-inch rack standard configuration is 1 bus bar (installed in the middle) or 3 bus bars.

2-Power Zone Bus Bar Assembly (823933)



1-Power Zone Bus Bar Assembly (827336)



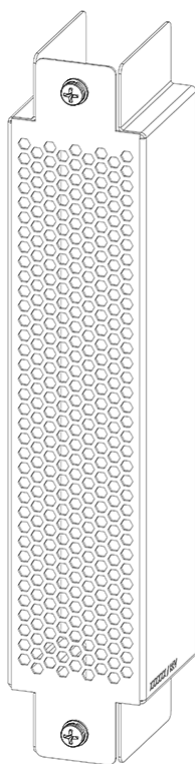
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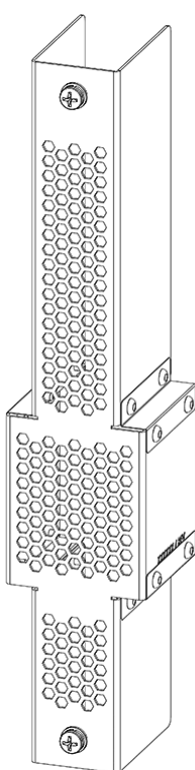
Bus Bar Access Covers

Bus Bar Access Covers provide safety for users and protection for the Bus Bars. The table below shows the available Bus Bars Access Covers.

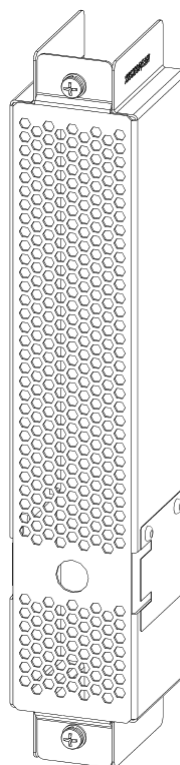
Description	Part Number
2-Power Zone Bus Bar Access Cover with BBS	823380
2-Power Zone Bus Bar Access Cover	823381
1-Power Zone Bus Bar Access Cover with BBS	823382
1-Power Zone Bus Bar Access Cover	823383



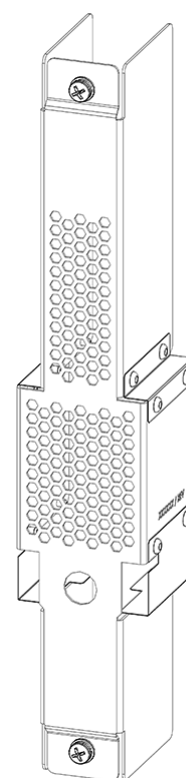
823380



823381



823382



823383

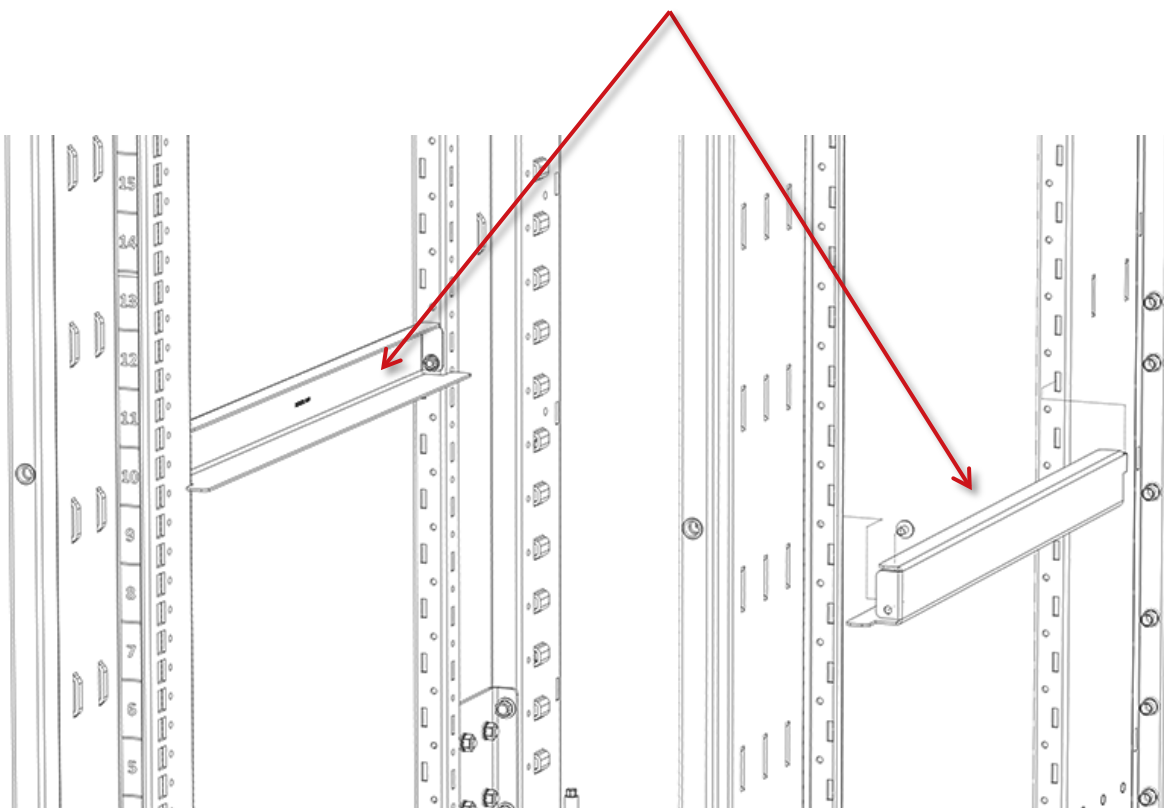
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IT Support Brackets

IT equipment can be installed over available 1U or 2U IT Support Brackets.

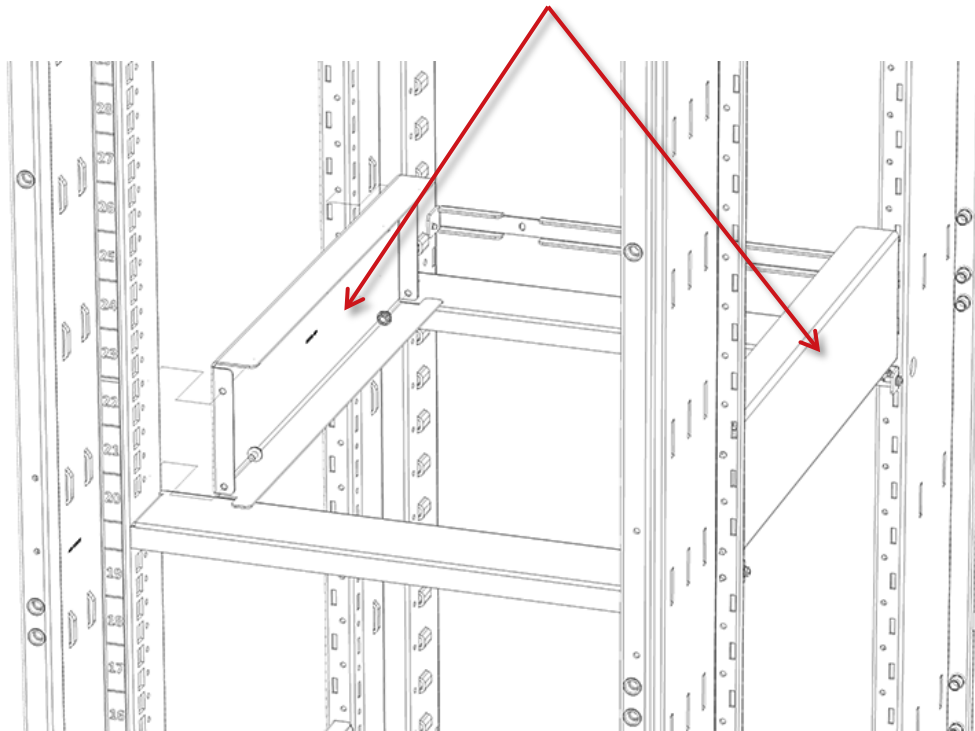
1U IT Support Brackets as installed into Rack



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2U IT Support Brackets as installed into Rack



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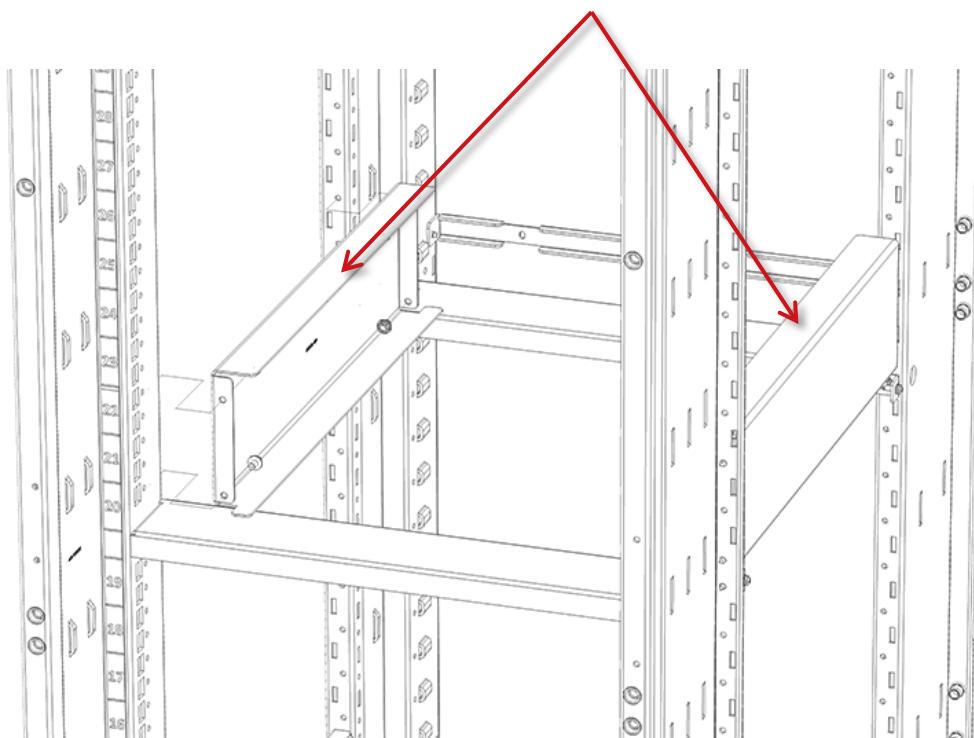
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Power Shelf Support Brackets

The weight of a power shelf is supported in the rack by two Shelf Support Brackets.

Description	Quantity
21" Power Shelf Support Bracket (130mm height shelf)	2 brackets for each shelf
21" Power Shelf Support Bracket (139mm height shelf)	2 brackets for each shelf
19" Power Shelf Support Bracket (for use with PF-2123-1LDM and PF-2123-1LDN)	2 brackets plus front plate for each shelf

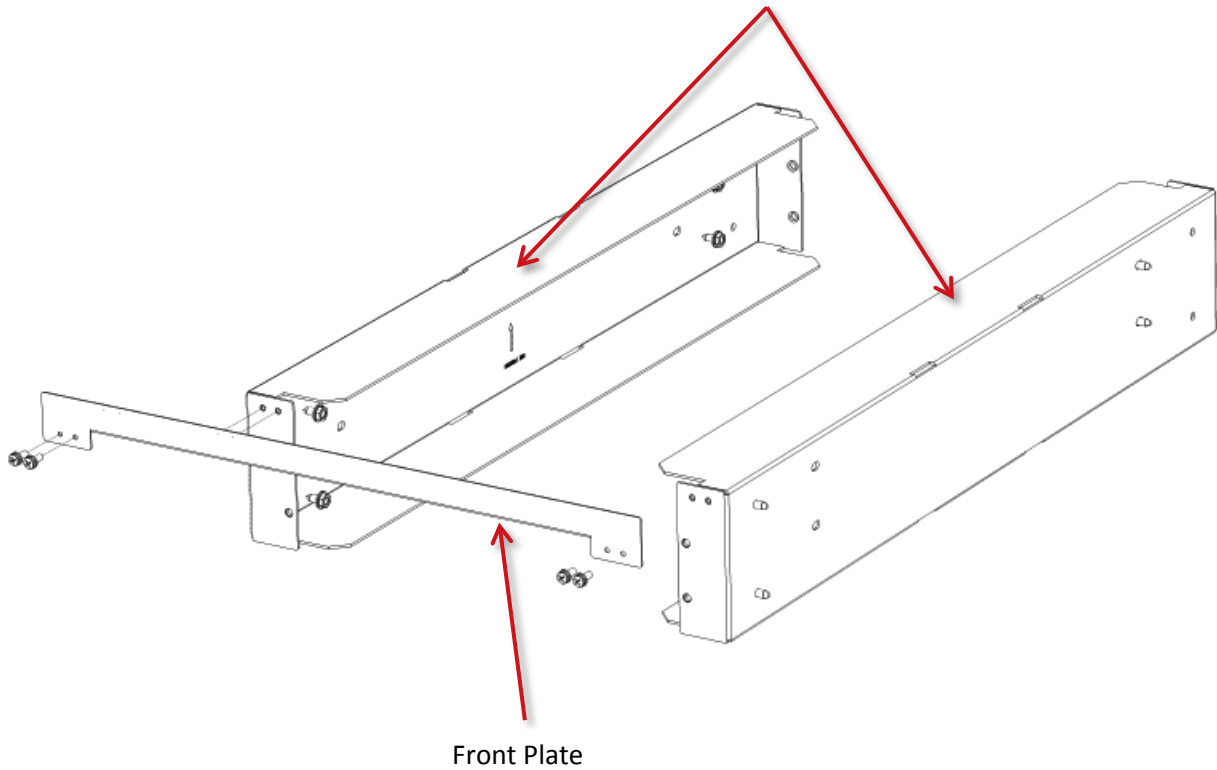
21" Power Shelf support brackets as installed into Rack



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19" Power Shelf support brackets (rack is not shown for clarity)

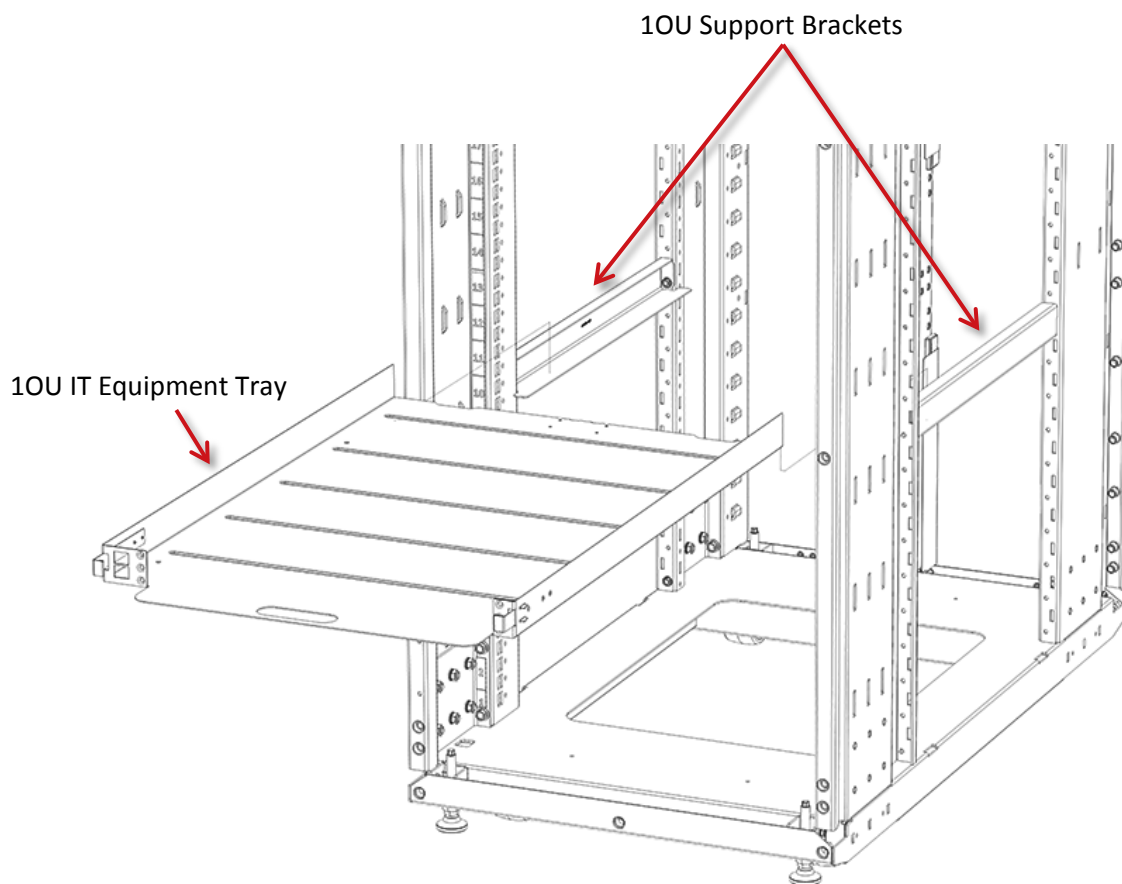


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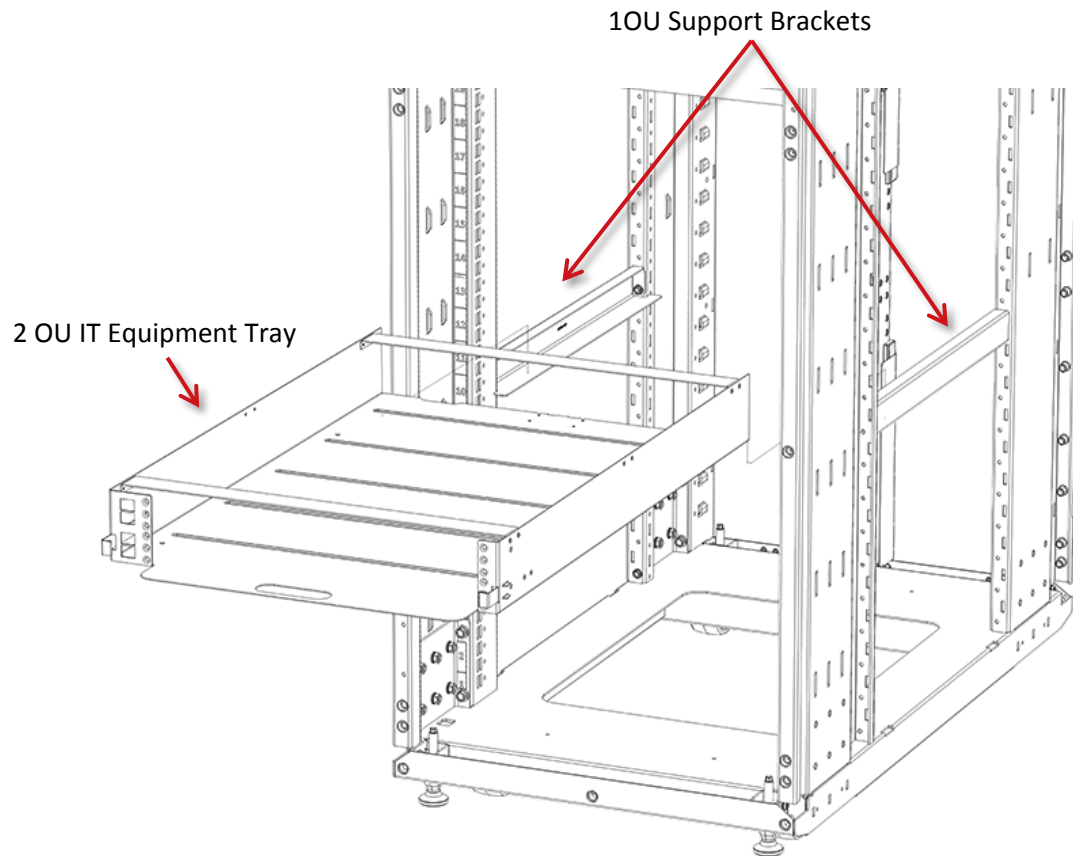
19-Inch EIA Equipment Tray

The weight of 19" EIA equipment in the rack is supported in the rack by a 10U and/or a 20U Equipment Tray. **Note:** Each Equipment tray requires 10U support brackets.



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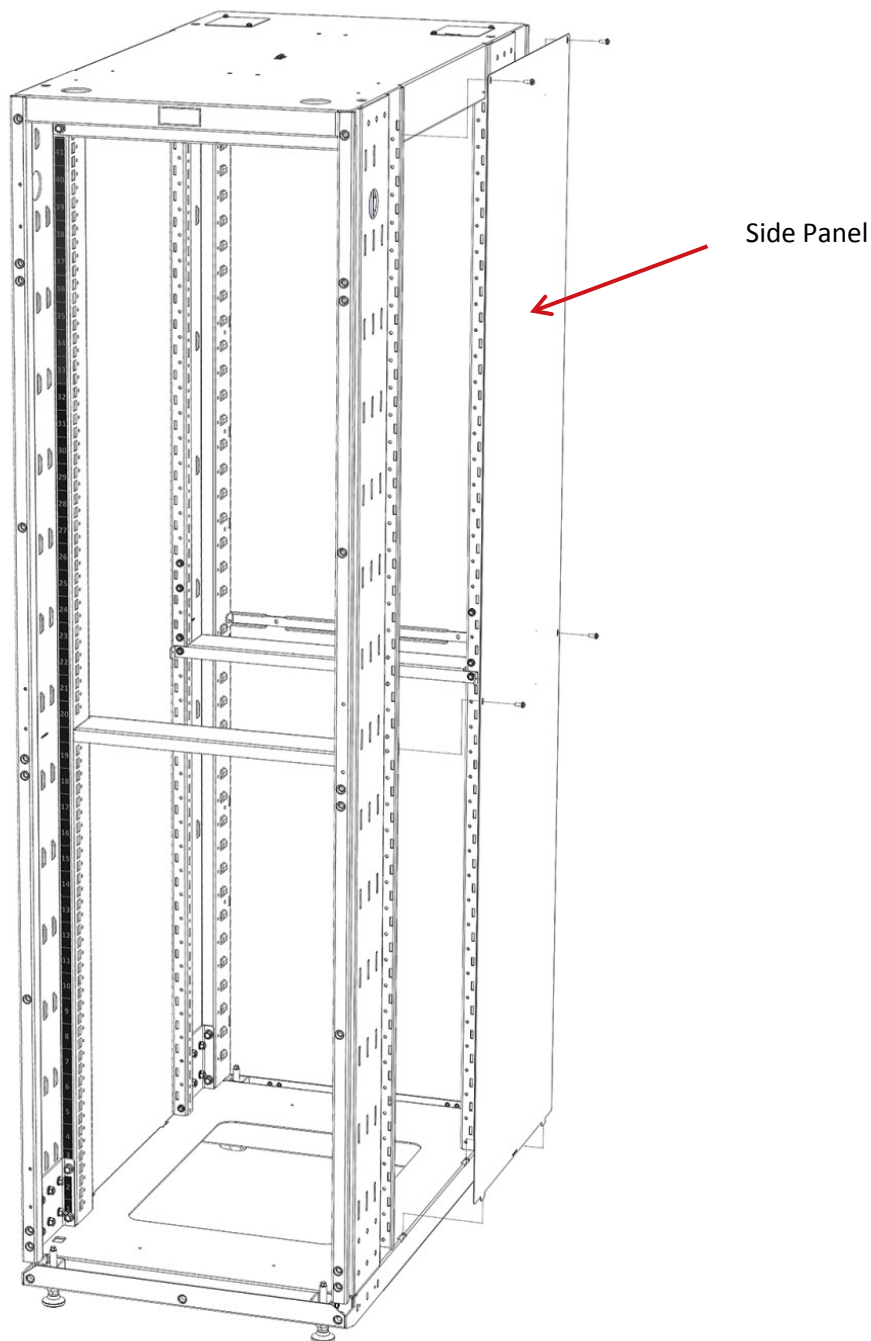
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Side Panels

The end-of-row airflow containment panels are easily attached to either side of a rack.

Note: Side Panels cannot be used with the Zone 4 Kit or the Rack Baying Kit.



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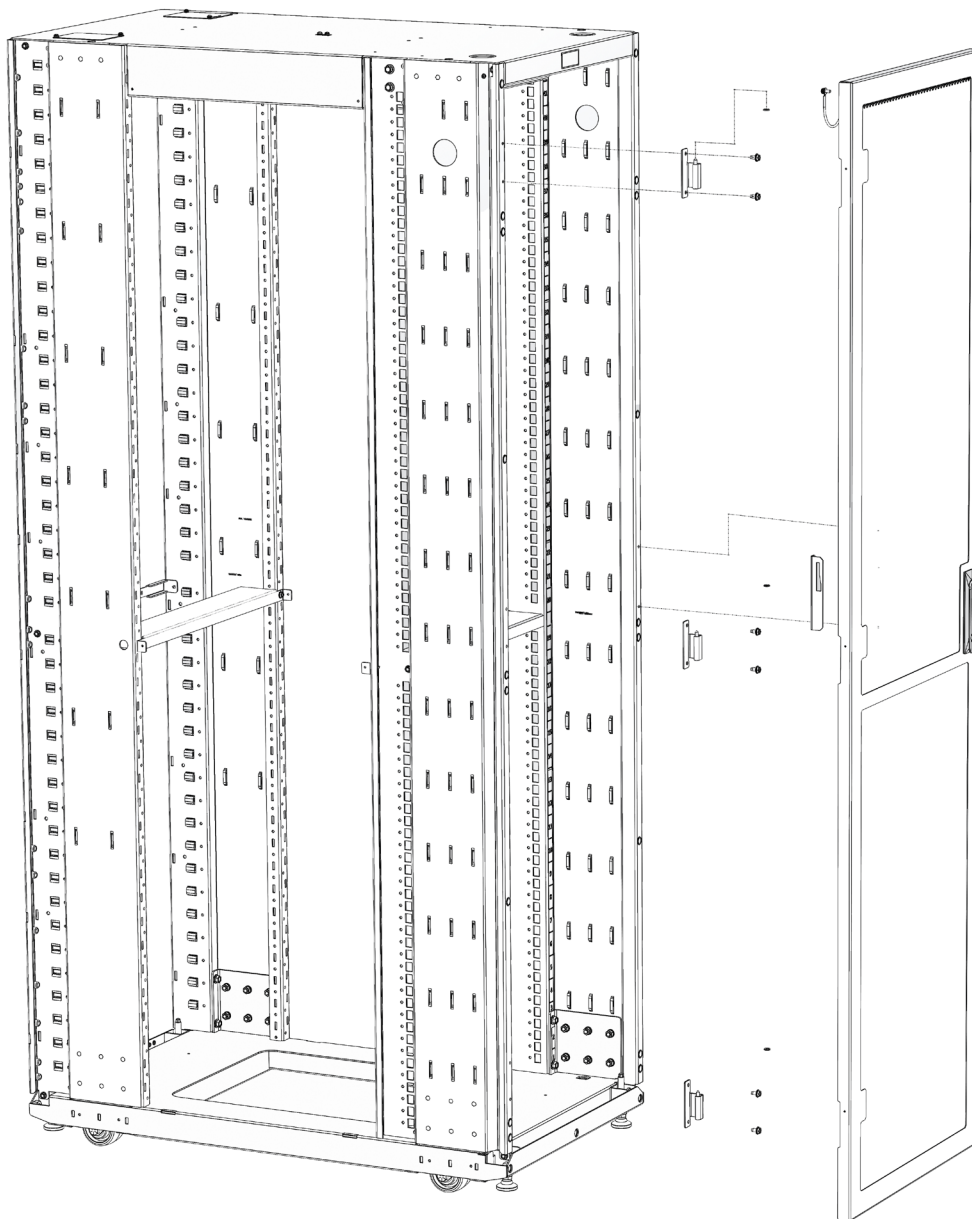
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Door Kit

Rack Doors can be installed on the front or rear (**Note:** An Extender Kit is required to install rear door).

Note: Rack Doors cannot be used with the Zone 4 Kit or the Rack Baying Kit.

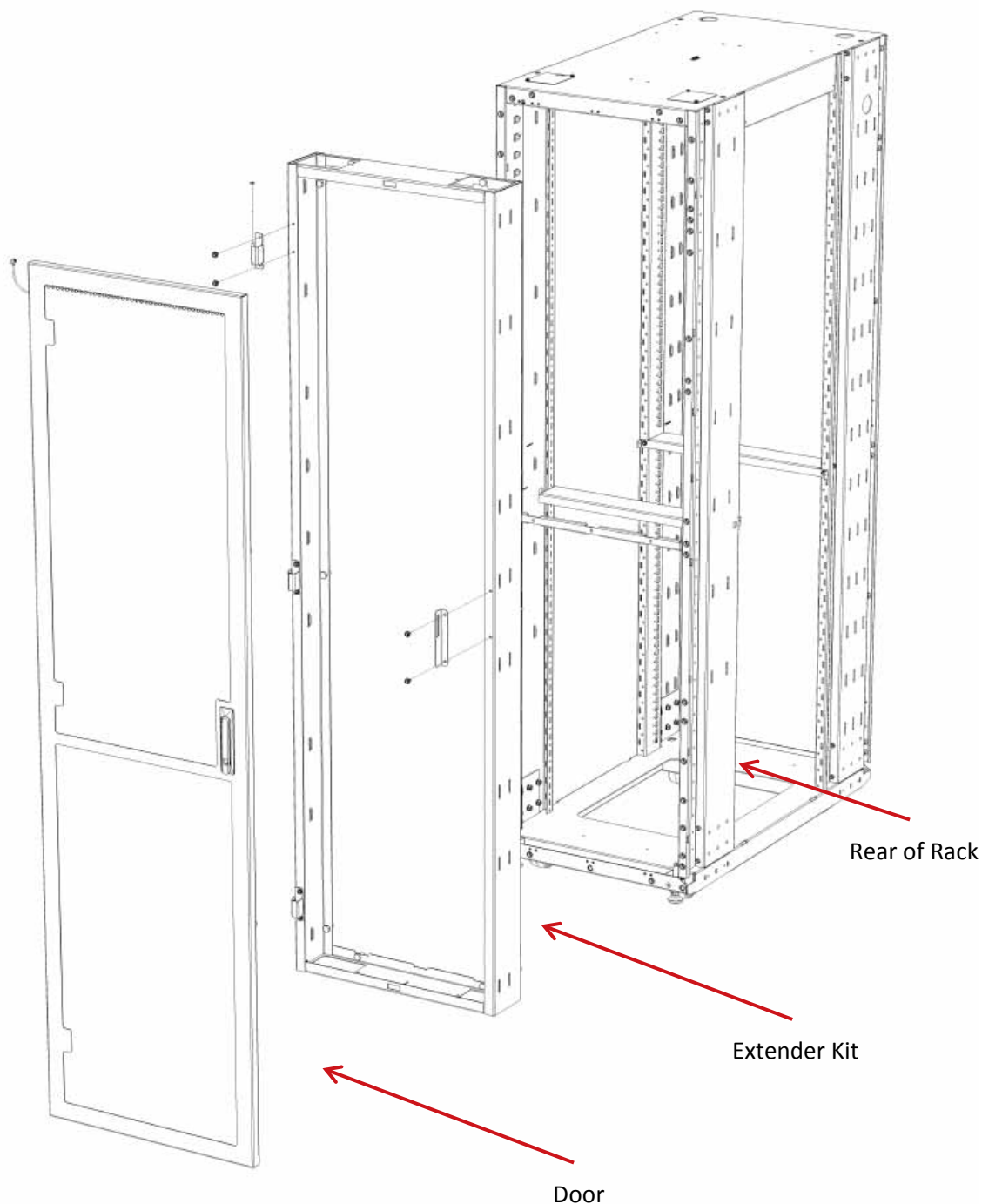
Exploded View of Door Attached to front of Rack



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Exploded view of Door Attached to Optional Extender Kit mounted to rear of Rack



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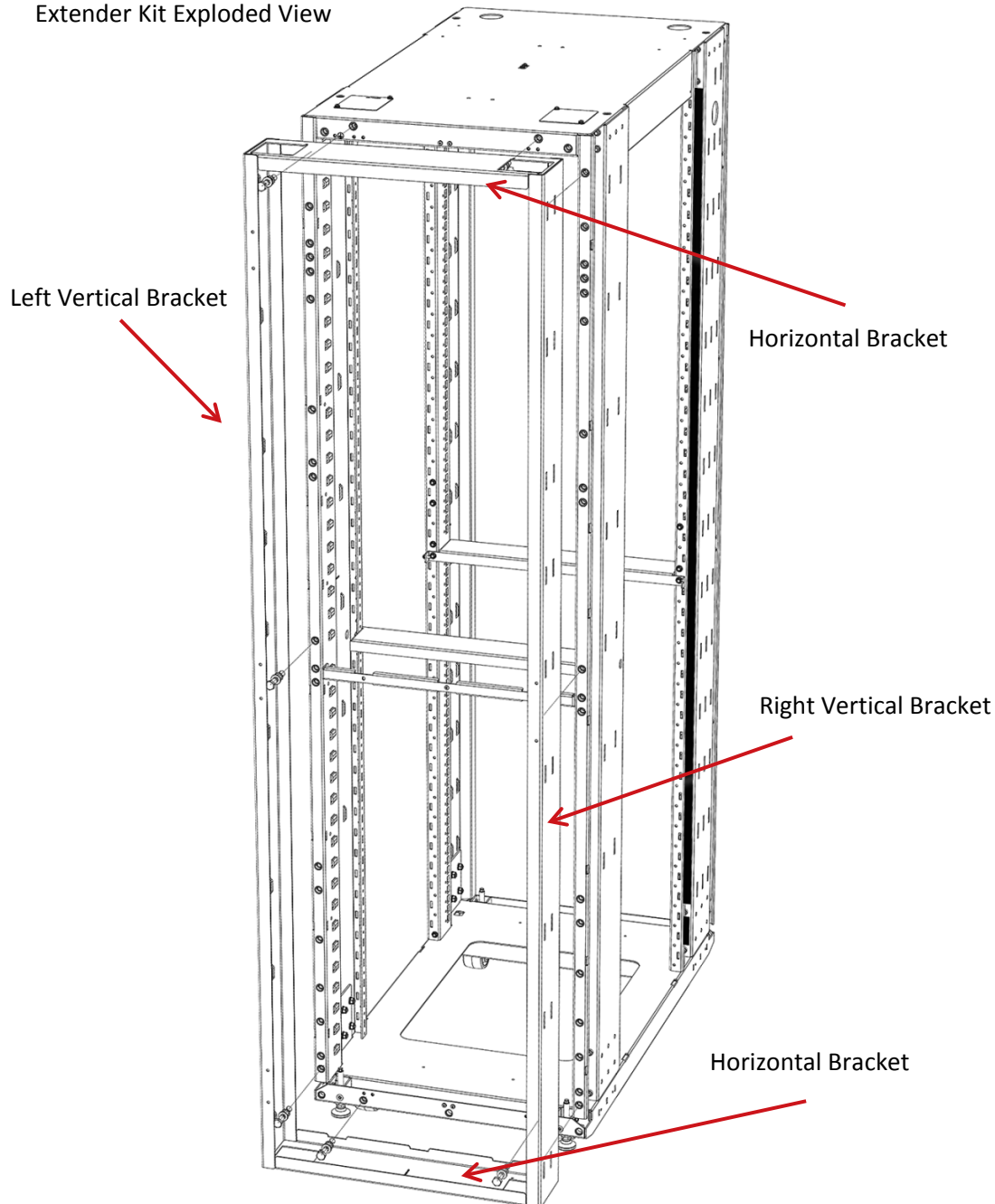
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Extender Kit

The Extender Kit provides a way to extend the depth of the rack to accommodate longer equipment.

Note: The Extender Kit cannot be used with the Zone 4 Kit or the Rack Baying Kit.

Extender Kit Exploded View



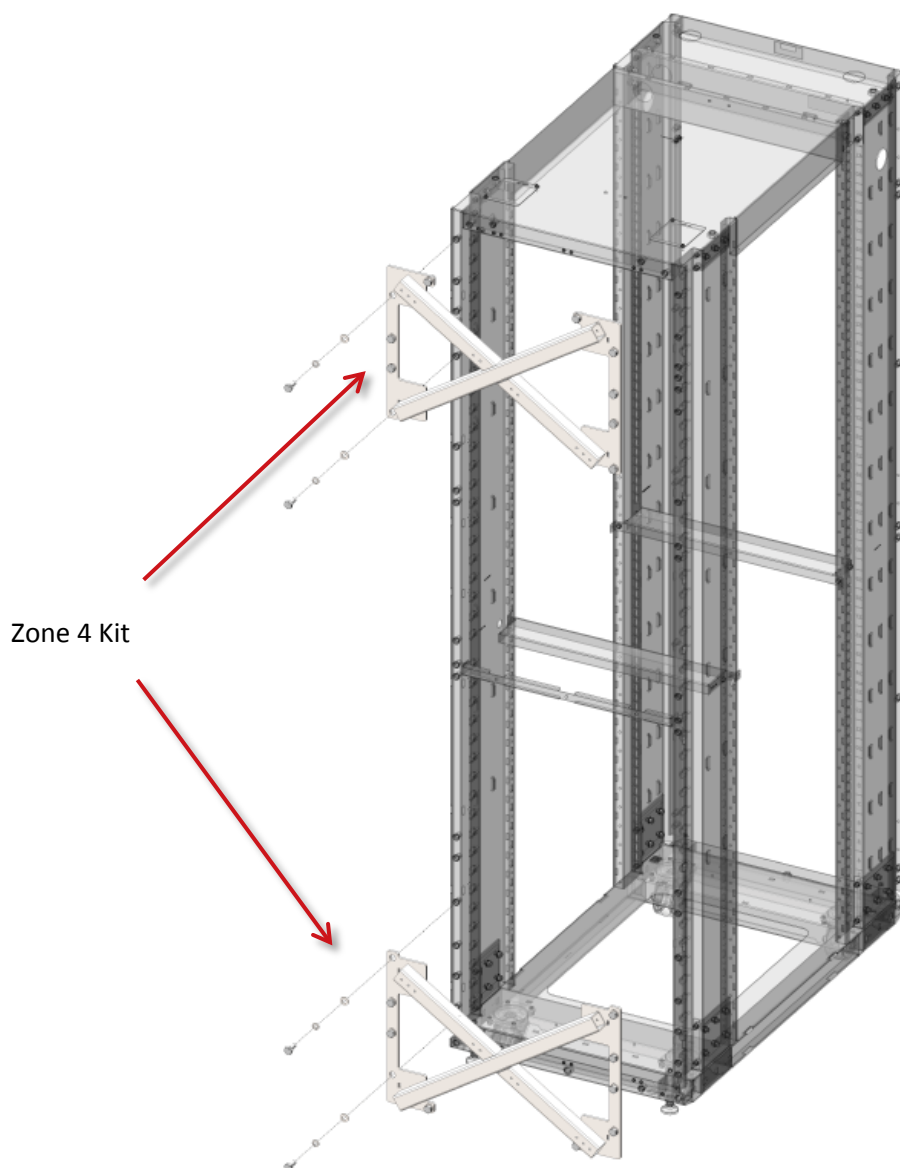
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Zone 4 Kit

The Zone 4 Kit is a bolt-on kit for GR63 Zone 4 installations and consists of two (2) “X” braces plus necessary hardware. The following caveats apply for Zone 4 installations:

- The Zone 4 Kit must be used in conjunction with Rack Baying Kits (described in the next section) to bolt together at least three (3) racks.
- Equipment cannot protrude beyond the rack.
- Air flow may be blocked for some equipment.
- Doors, Extender Kit, and Side panels cannot be used with the Zone 4 Kit.



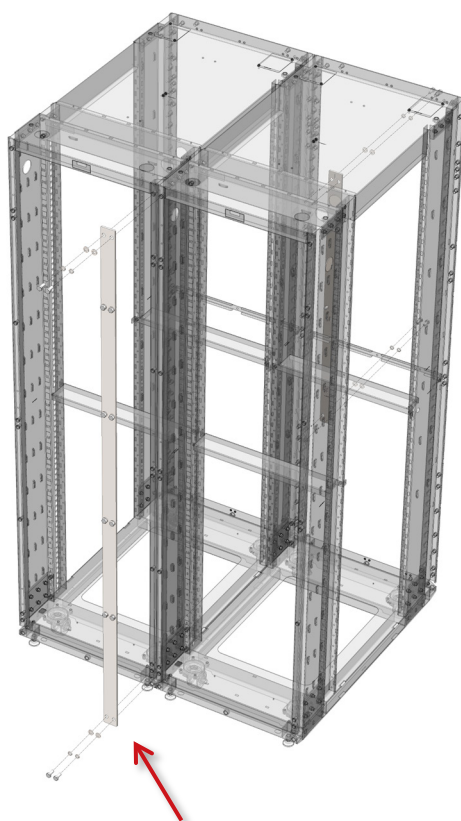
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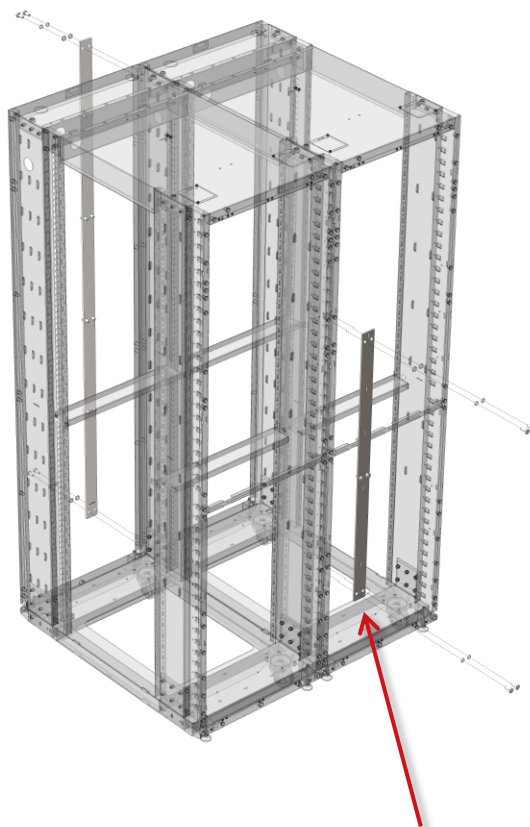
Rack Baying Kit

The Rack Baying Kit allows multiple racks to be bolted together for stability and GR63 Zone 3 installations. The kit consists of one front bar, one rear bar, and necessary hardware. The following caveats apply for Zone 3 installations:

- At least three (3) racks must be bolted together with Rack Baying Kits.
- Doors, Extender Kit, and Side panels cannot be used with the Rack Baying Kit.



Front Baying Kit Bar



Rear Baying Kit Bar

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