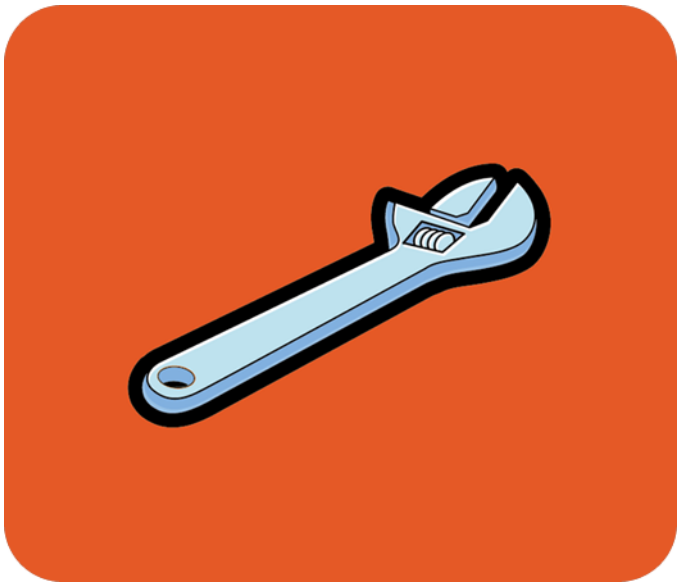
guide for evaluating the installation of hp equipment in non-hp racks



This document should be utilized when there is a need to evaluate and qualify whether any HP equipment can be installed, maintained, and serviced in a non-HP rack. Please follow the step-by-step instructions. *Fill in the blanks with requested information so that if technical help is required, all of the appropriate information is in one place.*

tools required: tape measure with millimeter increments

racking considerations	reference figures
1. manufacturer of the rack and model	
2. safety	Figure 2
3. type of rack	Figures 1, 2
4. rack dimensions	Figures 3, 4, 5
5. column hole type	Figures 6, 7
6. front door	Figures 8, 9, 10
7. column features	Figures 11, 12, 13
8. cable management arm (CMA)	Figure 14

Revision D
03/12/02

rack specifications

manufacturer of rack _____ model number____
Chatsworth Megaframe _____
Wrightline Paramount _____
Rittal Verio _____
Other: _____

safety:
Anti-tip features are required when installing or servicing equipment. Racks can be bolted to the sub-flooring or tied together, or the anti-tip features can be deployed. See **Figure 2**.

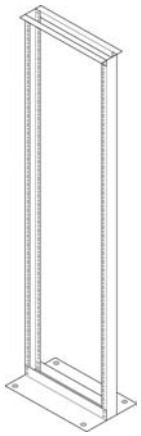


Figure 1
2-Post Rack

Figure 2
4-Post Rack

type of slide:
If you are installing the mid-weight slide, PN 5064-9670, then this slide has been designed to accommodate:

- 4-post EIA standard racks
- A range of adjustment from 55.9cm to 88.9cm (22" to 35")
- A variety of holes:
  - o 7.1mm round holes
  - o 9.5mm square holes
  - o M5, M6, 10–32, or 12–24 threaded holes

Please refer to the installation guide for the mid-weight slide kit, PN 5064-9670, for additional information on this slide. If you have other conditions or another type of slide, then continue with this guide.

type of rack:

- **Is this a seismic rated rack?**
  – If Yes, go to NOTE A located after STEP 6.
- **Is this a 2-post or 4-post rack?**
  See **Figures 1 & 2**:
  – For a 2-post rack, go to STEP 6.
  – For a 4-post rack, go to STEP 1.

step 1

- **Rack dimensions:** (refer to **Figures 3, 4, & 5**)
- **Inside width:** (dimension "A", **Figures 3 & 4**) 450 mm minimum
- **Front-to-back mounting depth:** (dimension "B1", **Figure 3**) 712 mm–746 mm

If the rack doesn't meet the above criteria, get technical help at **www.hp.com**.

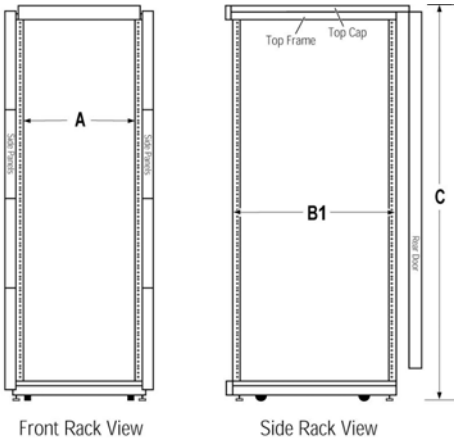
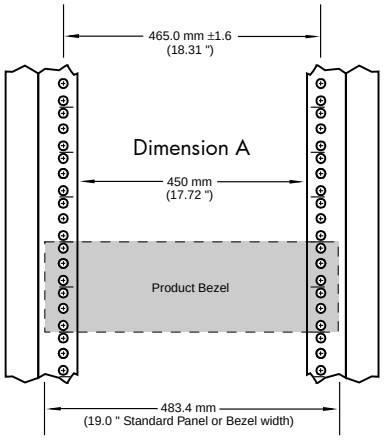


Figure 3
Rack Dimensions

step 2

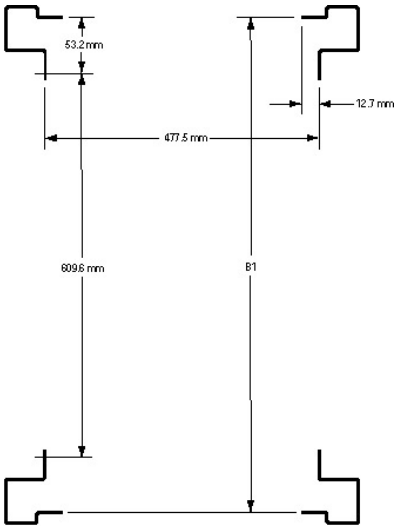
column hole type: HP rack-mounting kits support non-threaded holes with a 7.1-mm diameter and 9.5-mm square hole. See **Figures 6 & 7**.

If the rack doesn't meet the above criteria, get technical help at **www.hp.com**.



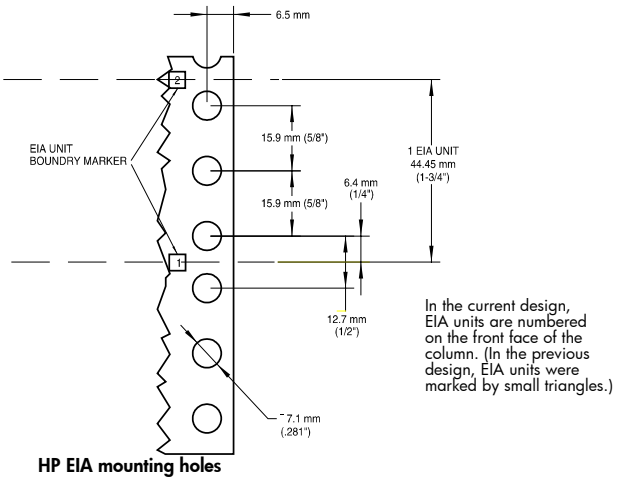
Column spacing, front view

Figure 4
Detailed Front View



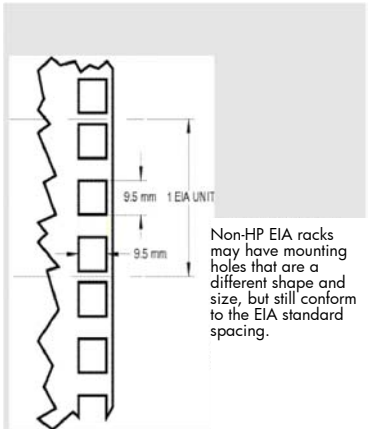
Column spacing, top view

Figure 5
Detailed Top View



HP EIA mounting holes

Figure 6



EIA mounting holes in Rittal, Compaq, and Dell racks

Figure 7

step 3

- **Is a front door required?**
  - If No, go to STEP 4.
  - If Yes, the front door must have at least 63% open perforation for thermal management. See **Figure 8**. If not, the option is to remove the front door. If this is not acceptable, get technical help at www.hp.com.

- **Inside door-to-door dimensions:** The dimension from the inside of the front door to the inside of the rear door (see **Figure 9**) must be greater than or equal to 82.5cm (32.5").

- **Bezel clearance:** The front door must have a minimum clearance of 55 mm (dimension "D") and 70 mm (dimension "E") for the front bezel. See **Figure 10**.

  The bezel clearance is measured from the front-column mounting surface to the internal surface of the door, including bolts, stiffening members, etc. The front column may require adjustment to meet dimensions D & E.

  If space for dimensions D & E is not possible, get technical help at **www.hp.com**.

Note: products utilizing the HP invent logo bezel design will require 35-mm door clearance.

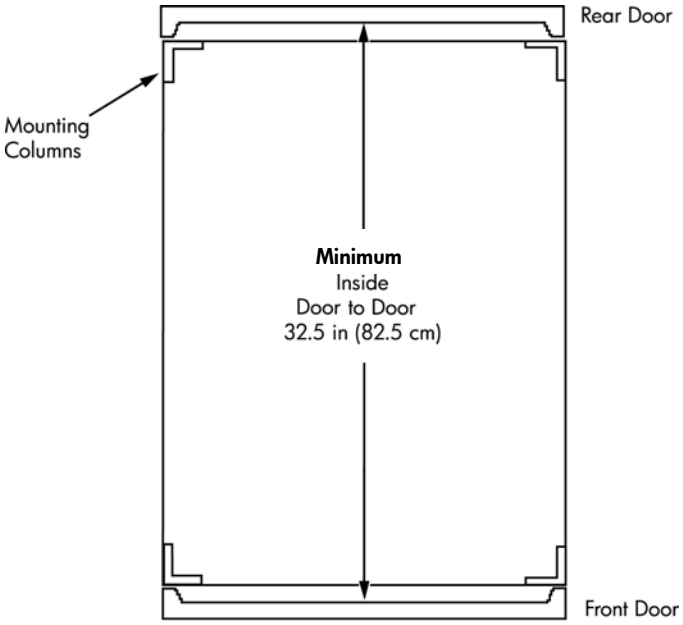


Figure 9
Top View Without Top Cover

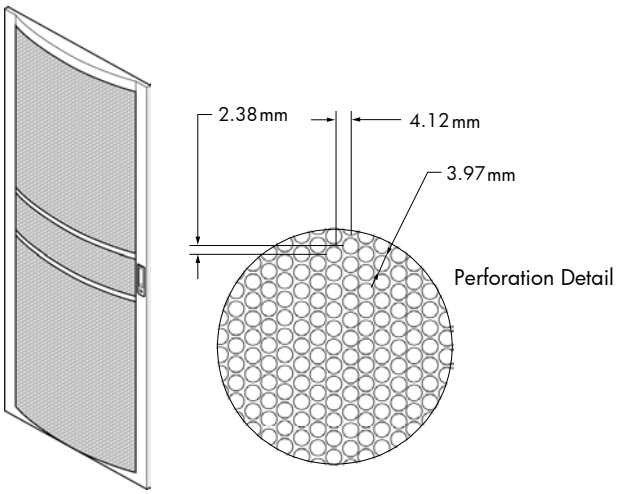


Figure 8
HP 63% Perforated Door Pattern

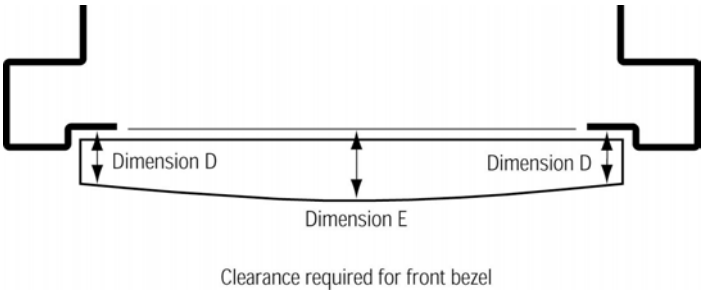


Figure 10
Bezel-to-Door Clearance

step 4

column features: Most HP rack-mounting kits support HP and Rittal columns. See **Figures 11, 12, & 13**. If the rack doesn't meet the above criteria, get technical help at **www.hp.com**.

step 5

cable management arm: The CMA allows the product to be serviced in the rack without disconnecting or damaging the cables. Not all HP products require or utilize CMAs. See **Figure 14** for CMA appearance.

step 6

2-post racks: The 2-post rack must meet dimension "A" in **Figure 3** and have the EIA universal hole pattern. Some HP products have been designed for 2-post racks. Please check the product rack-mounting options at **www.hp.com** to verify that 2-post rack-mounting is supported.

Some non-HP designs can be utilized to install HP products in 2-post racks. Please go to **www.hp.com** and get technical help.

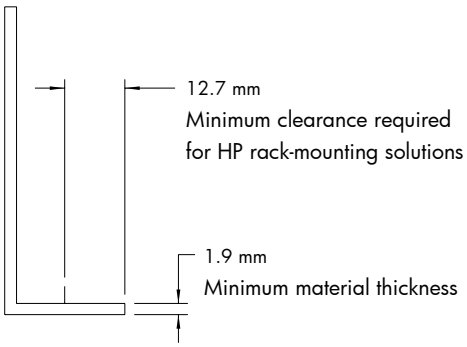
note A

seismic racks & mounting solutions: The HP seismic rack-mount kits are designed for the HP 4-post seismic rack only (J3864B). Some products are supported in non-HP seismic racks. For more details, go to **www.hp.com** and get technical help.

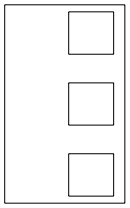
HP does not offer a 2-post seismic rack, but some HP products are supported in some non-HP 2-post seismic racks. For more details, go to **www.hp.com** and get technical help.

Figure 11
HP Column

Figure 12
Rittal Column



Top View



Front View

Figure 13
Rittal Column Features

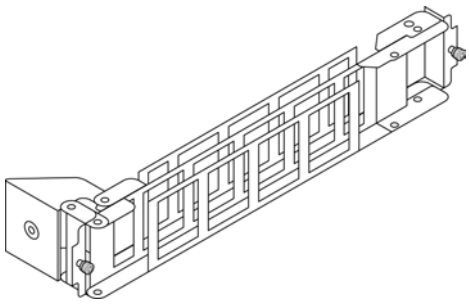


Figure 14
CMA