Rack Mounting for Check Point Appliances

Check Point appliances are mounted in racks with either fixed rails or sliding rails depending on the appliance model.

These Check Point appliances come equipped by default with fixed rails:

- 4200, 4400, 4600
- TE250

Alternatively, you can choose to install them with sliding rails (as an optional accessory).

The sliding rails are certified by Check Point to be used with these Check Point appliance models:

- 4200, 4400, 4600, 4800
- 12200, 12400, 12600
- TE250, TE1000
- TE250X, TE1000X, TE2000X
## Appliance Physical Specifications

These are the physical specifications of the Check Point appliance models that can be mounted in the sliding rails.

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>4200</td>
<td>17.24 in (43.8 cm)</td>
<td>12.6 in (32.02 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>4400</td>
<td>17.24 in (43.8 cm)</td>
<td>12.6 in (32.02 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>4600</td>
<td>17.24 in (43.8 cm)</td>
<td>12.6 in (32.02 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>4800</td>
<td>17.24 in (43.8 cm)</td>
<td>16 in (40.63 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>12200</td>
<td>17.24 in (43.8 cm)</td>
<td>16 in (40.63 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>12400</td>
<td>17.24 in (43.8 cm)</td>
<td>22.15 in (56.25 cm)</td>
<td>3.44 in (8.8 cm) (2U)</td>
</tr>
<tr>
<td>12600</td>
<td>17.24 in (43.8 cm)</td>
<td>22.15 in (56.25 cm)</td>
<td>3.44 in (8.8 cm) (2U)</td>
</tr>
<tr>
<td>TE250</td>
<td>17.24 in (43.8 cm)</td>
<td>16 in (40.63 cm)</td>
<td>1.72 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>TE1000</td>
<td>17.24 in (43.8 cm)</td>
<td>22.15 in (56.25 cm)</td>
<td>3.44 in (8.8 cm) (2U)</td>
</tr>
<tr>
<td>TE250X</td>
<td>17.24 in (43.8 cm)</td>
<td>24.45 in (62.1 cm)</td>
<td>1.73 in (4.4 cm) (1U)</td>
</tr>
<tr>
<td>TE1000X</td>
<td>17.24 in (43.8 cm)</td>
<td>22.09 in (56.1 cm)</td>
<td>3.46 in (8.8 cm) (2U)</td>
</tr>
<tr>
<td>TE2000X</td>
<td>17.24 in (43.8 cm)</td>
<td>22.09 in (56.1 cm)</td>
<td>3.46 in (8.8 cm) (2U)</td>
</tr>
</tbody>
</table>
Fixed Rails

This section describes how to mount the appliance in a rack with fixed rails.

⚠️ **Important** - Two people are required to install the appliance in a rack to prevent any possible damage.

Rack Mounting Hardware and Tools

You must install rack mounting hardware on the appliance before you mount it in a rack.

<table>
<thead>
<tr>
<th>Hardware Description</th>
<th>Qty.</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear mount bracket</td>
<td>2</td>
<td>Attaches to the appliance front panel. Both ear mount brackets are identical.</td>
</tr>
<tr>
<td>Ear mount screws</td>
<td>6</td>
<td>Secures the ear mount brackets to the appliance front panel. These screw heads are smaller (5 mm).</td>
</tr>
<tr>
<td>Appliance rail</td>
<td>2</td>
<td>Attaches to the appliance. Both rails are identical.</td>
</tr>
<tr>
<td>Rail plates</td>
<td>2</td>
<td>Attaches to the appliance rails. Both plates are identical.</td>
</tr>
<tr>
<td>Appliance rail screws</td>
<td>14</td>
<td>Secures the rail plates to the appliance rails and the rails to the appliance. These screw heads are larger (8 mm).</td>
</tr>
</tbody>
</table>
Rack Mounting Tools

- Philips screwdriver. A magnetic head is recommended to hold screws in place and retrieve dropped screws. A powered screwdriver is also useful.

  **Note** - Screws to attach the ear mount brackets and rail plates to the rack are not included.

Attaching the Ear Mount Brackets to the Appliance

Attach the two ear mount brackets to the front of the appliance.

![Diagram showing the ear mount brackets attached to the appliance]

  **Note** - The ear mount screws have 5 mm heads.

To attach the ear mount brackets to the appliance:

1. Attach the appliance ear bracket to one side of the appliance using three ear mount screws.
2. Do step 1 again for the other side of the appliance.
Attaching the Rail Plates

Attach the rail plates to the appliance rails to connect the appliance to the rear vertical rails of the rack.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appliance rail</td>
</tr>
<tr>
<td>2</td>
<td>Rail plate</td>
</tr>
</tbody>
</table>

*Note* - The appliance rail screws have 8 mm heads.

To attach the rail plates:

1. Attach a rail plate to an appliance rail using two appliance rail screws.
2. Do step 1 again for the other rail plate and appliance rail.

Attaching the Appliance Rails to the Appliance

Attach the appliance rails to the sides of the appliance. Align the rail plates to connect the appliance rails to the rear of the rack.

*Note* - The appliance rail screws have 8 mm heads.
To attach the appliance rails:

1. Set the appliance rail on the side of the appliance. The ridges on the appliance rails point to the appliance.

2. Attach the appliance rails to the appliance using three appliance rail screws.

3. Do steps 1 and 2 again for the other side of the appliance.
Installing the Appliance in the Rack

Install the appliance in the rack. It may be necessary to adjust the appliance rails to secure the appliance to the rack.

**Important** - Two people are required to install the appliance in a rack in order to prevent any possible damage.

To install the appliance in the rack:

1. Attach the ear mount brackets to the front of the rack.
2. Attach the rail plates to the rear of the rack.
3. Confirm that the appliance is stable and secure in the rack.
## Sliding Rails

### Sliding Rails Hardware

<table>
<thead>
<tr>
<th>Item</th>
<th>Hardware Description</th>
<th>Qty.</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appliance rail</td>
<td>2</td>
<td>Attaches to the sides of the appliance.</td>
</tr>
<tr>
<td></td>
<td>Flat-head screws</td>
<td>6</td>
<td>Attaches the appliance rails to the appliance.</td>
</tr>
<tr>
<td>2</td>
<td>Rack rail</td>
<td>2</td>
<td>Attaches to the rack.</td>
</tr>
<tr>
<td></td>
<td>Round-head screws</td>
<td>4</td>
<td>Attaches the rack rails to the racks.</td>
</tr>
<tr>
<td>3</td>
<td>Round-hole rack plates</td>
<td>4</td>
<td>For use with round-hole racks. Attaches the rack rails to racks with round-holes.</td>
</tr>
<tr>
<td></td>
<td>Large round-head screws</td>
<td>12</td>
<td>Attaches the round-hole rack plates to the racks.</td>
</tr>
</tbody>
</table>
Rack Mounting Tools

Philips screwdriver. We recommend a screwdriver with a magnetic head to hold screws and retrieve dropped screws.

Attaching the Appliance Rails

Use three flat-head screws to attach each appliance rail to the side of the appliance.

- The appliance rail for the right-side of the appliance is marked RH.
- The appliance rail for the left-side of the appliance is marked LH.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>End of appliance rail with round hole.</td>
</tr>
<tr>
<td>2</td>
<td>Front of appliance.</td>
</tr>
</tbody>
</table>
To attach the appliance rails:

1. Set the right-side appliance rail on the right-side of the appliance.
   - The flatter side of the appliance rail faces the appliance.
   - The end of the appliance rail with the round hole points away from the appliance.
   - For a 2U appliance, the appliance rail uses the lower row of holes on the appliance.

2. Use three flat-head screws to attach the appliance rail to the appliance.
3. Do steps 1 and 2 again for the left side of the appliance.

Preparing Round-Hole Rack Rails

Use the four round-hole rack plates to attach the rack rail to the rack.

To attach the round-hole rack plates:

1. Align the round-hole rack plate on the rack.
   Make sure that the round holes face the rack.
2. Use three large round-head screws to attach the round-hole rack plate to the rack.
   Make sure that you use the same rack number for all the round-hole rack plates.
3. Do steps 1 - 2 again for the other round-hole rack plates.

**Attaching the Rack Rails**

Attach the rack rails to the rack. If you are using round-hole racks, make sure that the round-hole rack plates are attached. For more about attaching round-hole rack plates, see Preparing Round-Hole Rack Rails (on page 11).

- The rack rail for the left-side of the rack is marked LH.
- The rack rail for the right-side of the rack is marked RH.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Inner clips. Press on these clips to detach the rack rail from the rack.</td>
</tr>
<tr>
<td>2</td>
<td>Yellow locking piece. When engaged, locks the front and back of the rack rail and you cannot detach it from the rack.</td>
</tr>
</tbody>
</table>
Note - Disengage the yellow locking piece before you attach the rack rails to the rack. When this piece is engaged, you cannot insert the front of the rack rail into the rack.

To attach the rack rails to the rack:

1. From the front left-side of the rack, align the front of the left rack rail with the rack number.
   - The front of the rack rail is marked with the word FRONT.
   - Make sure that the sliding rail faces the inside of the rack.
   - To detach the rack rail from the rack, use your thumbs to press the inner clips and move the rack rail away from the rack.

2. Insert the front of the left rack rail into the rack until it clicks into place.

3. From the rear of the rack, align the rear of the rack rail with the same rack number.
   - The rear of the rack rail is marked with the word REAR.

4. Insert the rear of the left rack rail into the rack until it clicks into place.

5. From the rear of the rack, do these steps:
a) Use a round-head screw to secure the rack rail to the rack.

b) Slide the yellow locking piece toward the rear of the rack.

   This piece locks the inner clips and does not let you detach the rear of the rack rail from the rack.

6. From the front of the rack, do these steps:
   a) Use a round-head screw to secure the rack rail to the rack.
   b) Slide the yellow locking piece toward the front of the rack.

7. Do steps 1 through 6 again for the right rack rail.

Installing the Appliance in the Rack

Install the appliance in the sliding rails in the rack.

⚠️ **Important** - The appliance is heavy and it is necessary to use two people to hold and install the appliance in the rack to prevent personal injury and damage to the appliance.
To install the appliance in the rack:

1. Set the appliance until the appliance rails are level with the rack rails.
2. Move the appliance into the rack until the sliding rails click.
   The sliding rails are locked.

Removing the Appliance

Unlock the sliding rails to remove the appliance from the rack.

**Important** - The appliance is heavy and it is necessary to use two people to hold and install the appliance in the rack to prevent personal injury and damage to the appliance.

![Diagram of appliance rails](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Release clip</td>
</tr>
<tr>
<td>2</td>
<td>Rear of rack rail</td>
</tr>
</tbody>
</table>

To remove the appliance from the rack:

1. Move the appliance away from the rack as far as possible.
2. On the appliance rail, push the release lever and move the appliance away from the rack rail.
3. Push the release clips and move the rack rails into the rack as far as possible.

Appliance Air Vents

Make sure that the appliance air vents have sufficient airflow when the appliance is mounted in a rack.

⚠️ **Important** - If the appliance vents are blocked, the appliance can become too hot and it can be damaged.

The appliance and rack rails have been tested in extreme conditions and do not block air flow to the appliance. These appliances are specifically designed to install with these rails.
1U Appliance Airflow
2U Appliance Airflow