



# Installing the End Guard on the Cisco ONS 15454 High-Density Four-Shelf and Zero-Shelf Bay Assembly

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This guide describes how to unpack and install the ONS 15454 Bay End Guard Kit for the ONS 15454 four-shelf and zero-shelf bay assembly. [Figure 1 on page 3](#) shows the end guard installed on each side of a bay assembly rack.

This guide includes the following sections:

- [Safety Recommendations](#)
- [Included Material](#)
- [Recommended Material](#)
- [Unpacking Instructions](#)
- [Installation Instructions](#)

## Obtaining Optical Networking Information

This section contains information that is specific to optical networking products. For information that pertains to all of Cisco, refer to the [Obtaining Documentation, Obtaining Support, and Security Guidelines](#) section.

## Where to Find Safety and Warning Information

For safety and warning information, refer to the *Cisco Optical Transport Products Safety and Compliance Information* document that accompanied the product. This publication describes the international agency compliance and safety information for the Cisco ONS 15454 system. It also includes translations of the safety warnings that appear in the ONS 15454 system documentation.



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## Cisco Optical Networking Product Documentation CD-ROM

Optical networking-related documentation, including Cisco ONS 15xxx product documentation, is available in a CD-ROM package that ships with your product. The Optical Networking Product Documentation CD-ROM is updated periodically and may be more current than printed documentation.

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

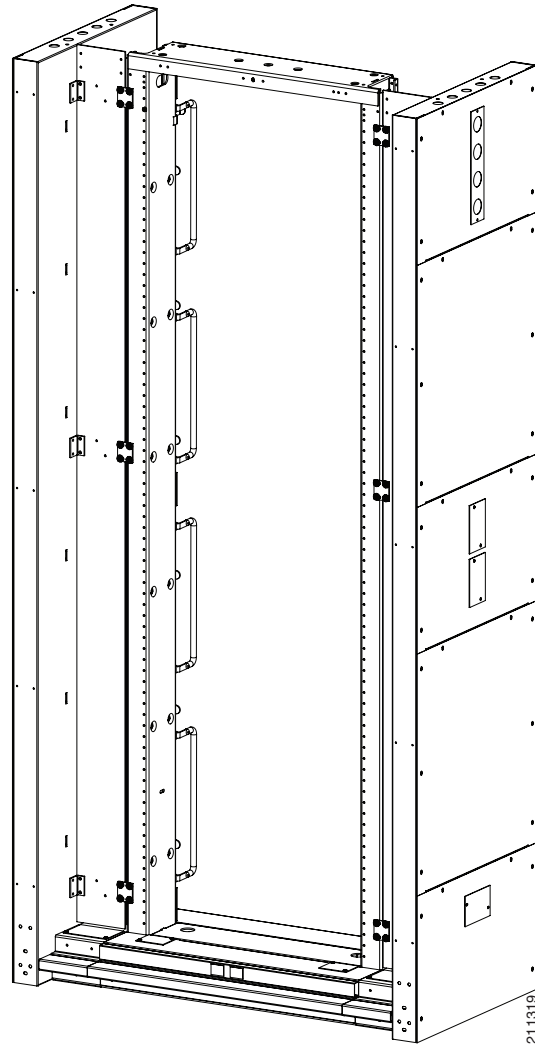
## Cisco ONS 15454 Bay End Guard Kit

The ONS 15454 Bay End Guard Kit provides a full aisle guard with an AC on/off switch cutout. It is used to complete the end of the aisle (about 2.50-inches (6.35-cm) wide or thick). The end guard may or may not have power (110 VAC), 110 VAC outlets, and a visual light for alarms.

**Note**

Although [Figure 1](#) shows an end guard on each side of a rack to illustrate attachments points, the normal procedure is to attach a single end guard at the end of a row of bay assembly racks.

**Figure 1** Front View of Rack with End Guards Installed



## Safety Recommendations

The following guidelines will help to ensure your safety and protect the equipment. This list does not include every potentially hazardous situation.

- Never attempt to lift an object that might be too heavy for you to lift by yourself.
- Always disconnect the power source and unplug all power cables before installing or removing the bay assembly.
- Carefully examine your work area for possible hazards such as moist floors, ungrounded power extension cables, and missing power grounds.

- When using equipment such as a forklift or pallet jack to move the bay assembly to another location, use only moving equipment that is capable of preventing the bay assembly from tipping.
- Do not wear loose clothing, jewelry (including rings and chains), or other items that could get caught in the bay assembly.
- Do not work alone if potentially hazardous conditions exist.

## Included Material

The end guard kit ships with the following materials:

- Three large L-shaped brackets
- Three small L-shaped brackets
- Phillips head metal screws
- This installation document

## Recommended Material

Because most of the installation is complete when you receive the system, the end guard requires little installation material. The most significant tasks are removing the packaging from the end guard assembly and removing the end guard from the shipping container. Because the actual installation of the end guard in each facility is done according to local site practice, your material needs may vary.

Cisco recommends that you have the following items on hand for installation:

- A forklift or pallet jack to move the packaged end guard to the unpacking/staging area
- A pair of scissors to cut the plastic banding on the shipping container
- Utility blankets or their equivalent to protect the end guard while on the forklift or pallet jack
- Phillips screw driver or cordless drill with Phillips bit

## Unpacking Instructions

The end guard assembly ships in a crate with an integrated pallet, and is secured by eight metal clamps.

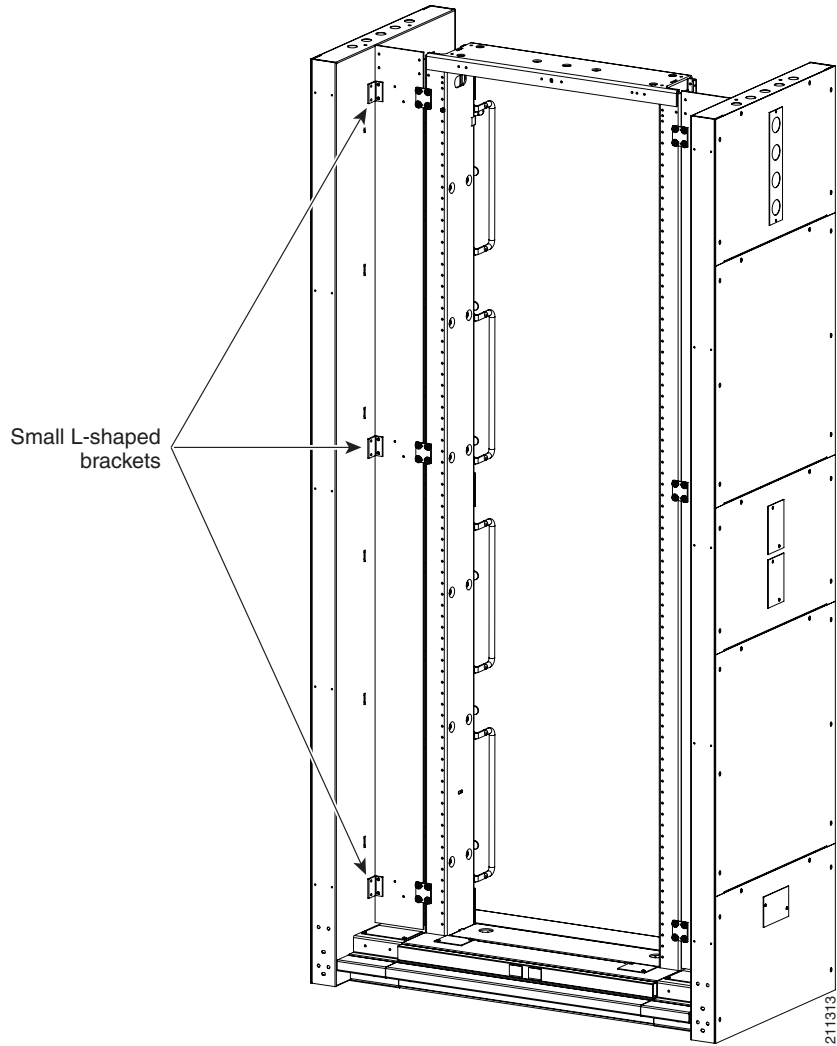
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- Step 1** Use a forklift or pallet jack to place the shipping crate as close to the installation location as possible.
  - Step 2** Using a prybar or screwdriver, remove the eight metal clamps that hold the lid on to the crate.
  - Step 3** Remove the lid from the shipping crate.
  - Step 4** Lift the end guard assembly out from the shipping crate.
  - Step 5** Remove the accessories located under the end guard from the shipping crate.
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# Installation Instructions

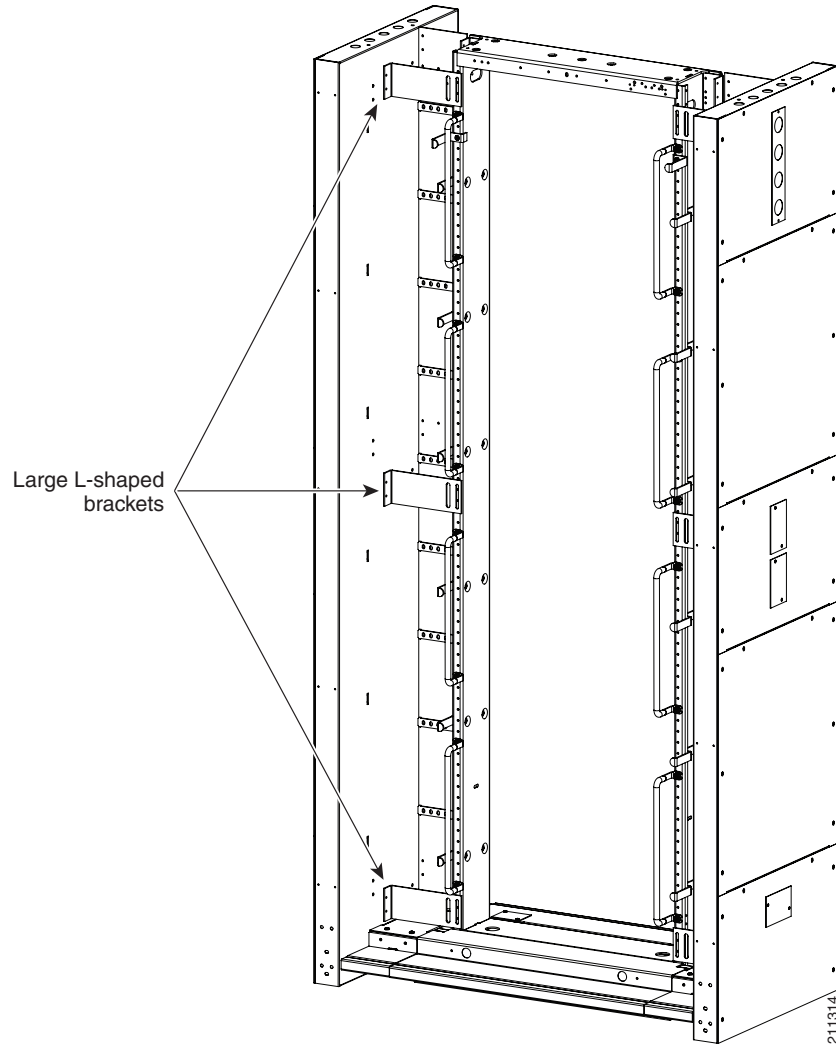
The end guard comes fully assembled, requiring only attachment to the side of the bay assembly rack. General bracket locations are shown in [Figure 2 on page 6](#) and [Figure 3 on page 7](#). Specific locations for installing the small brackets are shown in [Figure 4 on page 8](#).

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- Step 1** Locate the end guard front edge flush to the front of the rack and next to the rack or base filler.
  - Step 2** Mark the floor using the holes in the bottom of the base.
  - Step 3** Drill two 3/8-inch holes 2-1/2-inches deep (0.953-cm holes 6.35-cm deep) and install the wedge anchors.
  - Step 4** Attach the end guard over the anchor tight to the base filler using the hex nut and flat washer provided with the anchor.
  - Step 5** Bolt the short side of the three (3) large L-brackets to the inside panel of the end guard using two #12-24 x 1/4-inch (0.635-cm) Phillips head metal screws per bracket.
  - Step 6** Bolt the long side of the three large L-brackets to the rear of the rack using two (2) #12-24 x 1/2-inch (1.27-cm) Phillips head metal screws and 1/4-inch (0.635-cm) flat washers per bracket.
  - Step 7** Bolt one side of the three (3) small L-brackets to the inside panel of the end guard using two #12-24 x 1/4-inch (0.635-cm) Phillips head metal screws per bracket.
  - Step 8** Bolt the other side of the three (3) small L-brackets to the vertical extender panel toward the front of the rack using two (2) #12-24 x 1/4-inch (0.635-cm) Phillips head metal screws per bracket.
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**Figure 2** *End Guard Installation (Front View of Rack)*



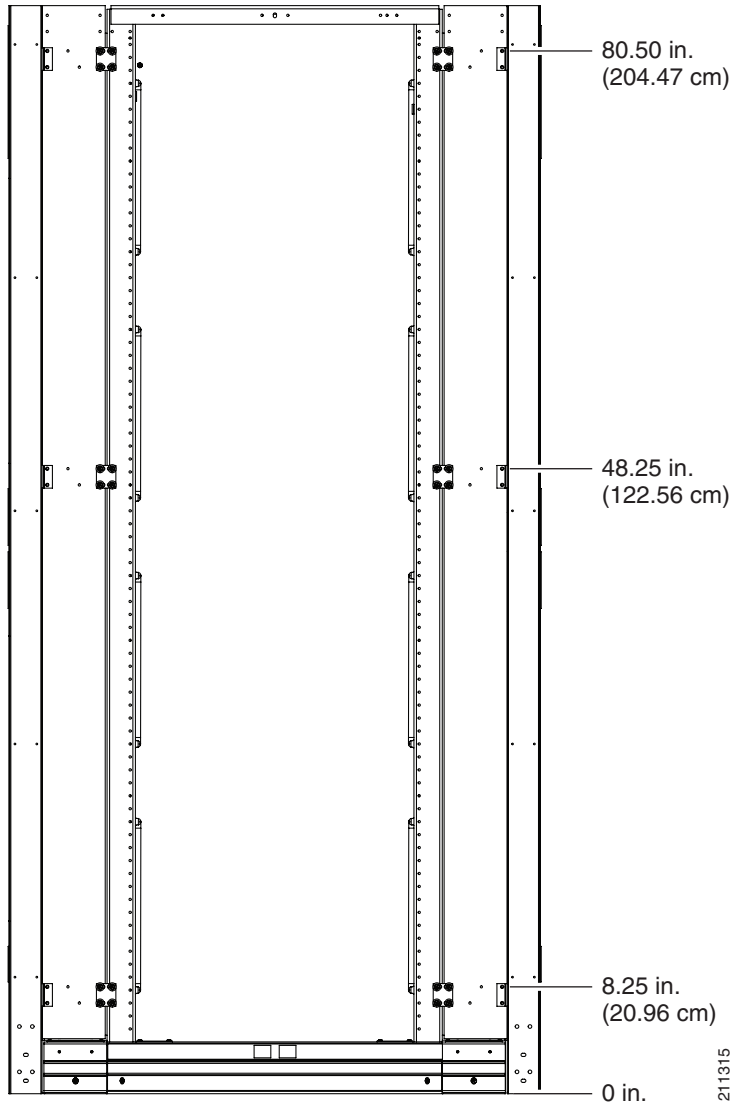
**Figure 3** *End Guard Installation (Rear View of Rack)*



## Bracket Location

Figure 4 on page 8 shows the height in inches, measured from the floor, for locating the small brackets when installing the end guard.

**Figure 4** *End Guard Installation (Front Bracket Location)*





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