



## Flex Frame-S

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Flex Frame-S

### Introduction

This user manual describes the Flex Frame-S and provides directions for installation. Procedures include: unpacking the frame, mounting the frame on concrete floor or raised floor, and grounding the frame. This user manual lists related publications and how to obtain technical assistance.

### Related Publications

The following related publication is available at <https://www.commscope.com/SupportCenter>

- **Propel User Manual (TC-96307-IP)** -- Manual listed only has info on the Propel panel not the frame) <https://www.commscope.com/globalassets/digizuite/944022-tc-96307-ip.pdf>

# 1 Product Description

## 1.1 General Description

The Flex Frame-S (760258507 ODF-FFS19CM-24RU) shown in [Figure 1](#), is an optical distribution frame providing a connection point between facility cables in a data center. Facility cables can be high-fiber-count cables containing rollable ribbons, and of a type suitable for being routed indoors or outdoors. The basic product consists of a 19-inch seismic rack with multiple cable managers, at the bottom of the frame. The Flex Frame-S has 24 rack units for fiber connector panel, slack storage not and multiple cable managers.

The Flex Frame-S has removable front doors at the bottom that are used to cover the fiber jumper slack storage area. The doors can be permanently removed if desired as well.

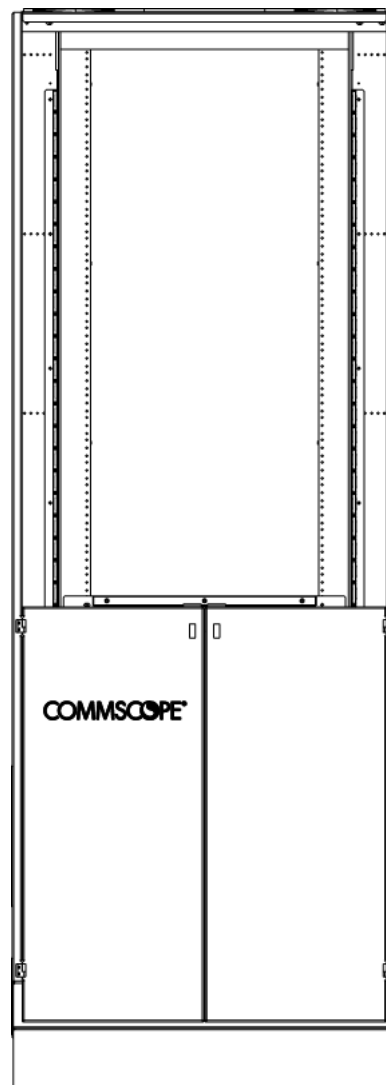


Figure 1. Flex Frame-S (Front View), ODF-FFS19CM-24RU

Figure 2 shows the frame in rear isometric and front views with call outs indicating important features of the frame. The identified features include the following:

- **19-Inch Seismic Rack** yields basic rack and front view structure of the Flex Frame-S.
- **Flat Clamp Bracket** is used to secure cables at the top of the frame.

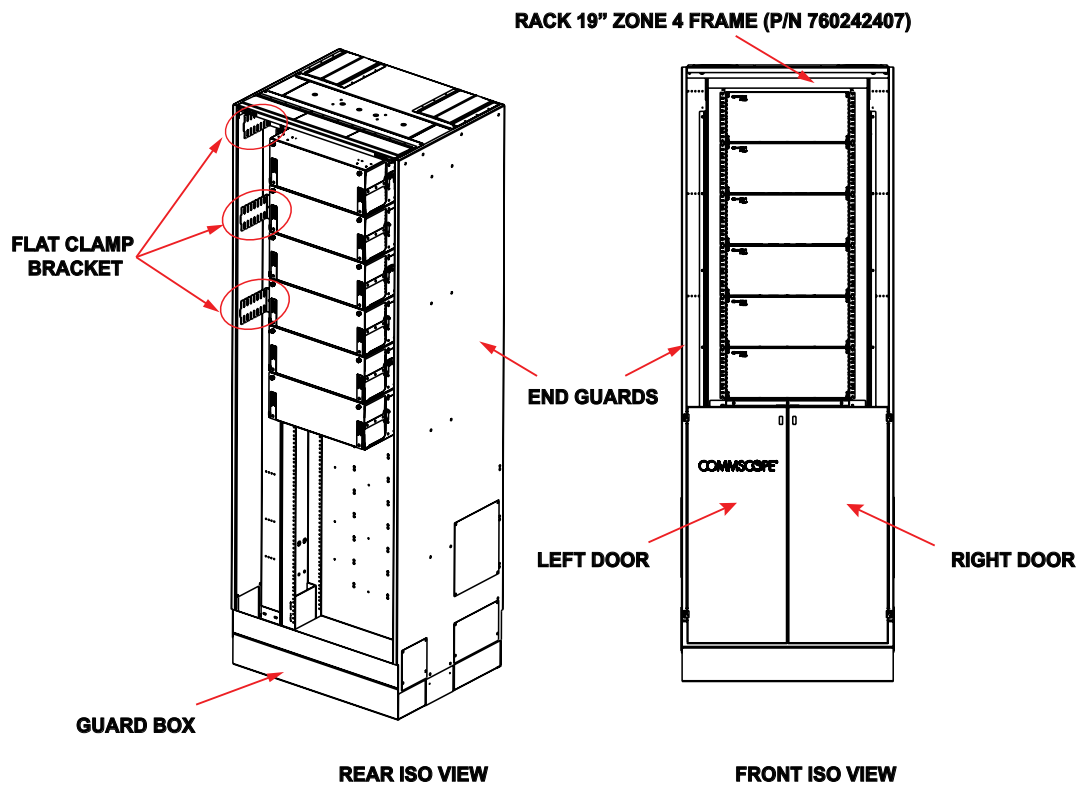


Figure 2. Flex Frame-S ( Isometric & Front Views)

## 1.2 Dimensions and Specifications

Figure 3 shows the Flex Frame-S dimensions.

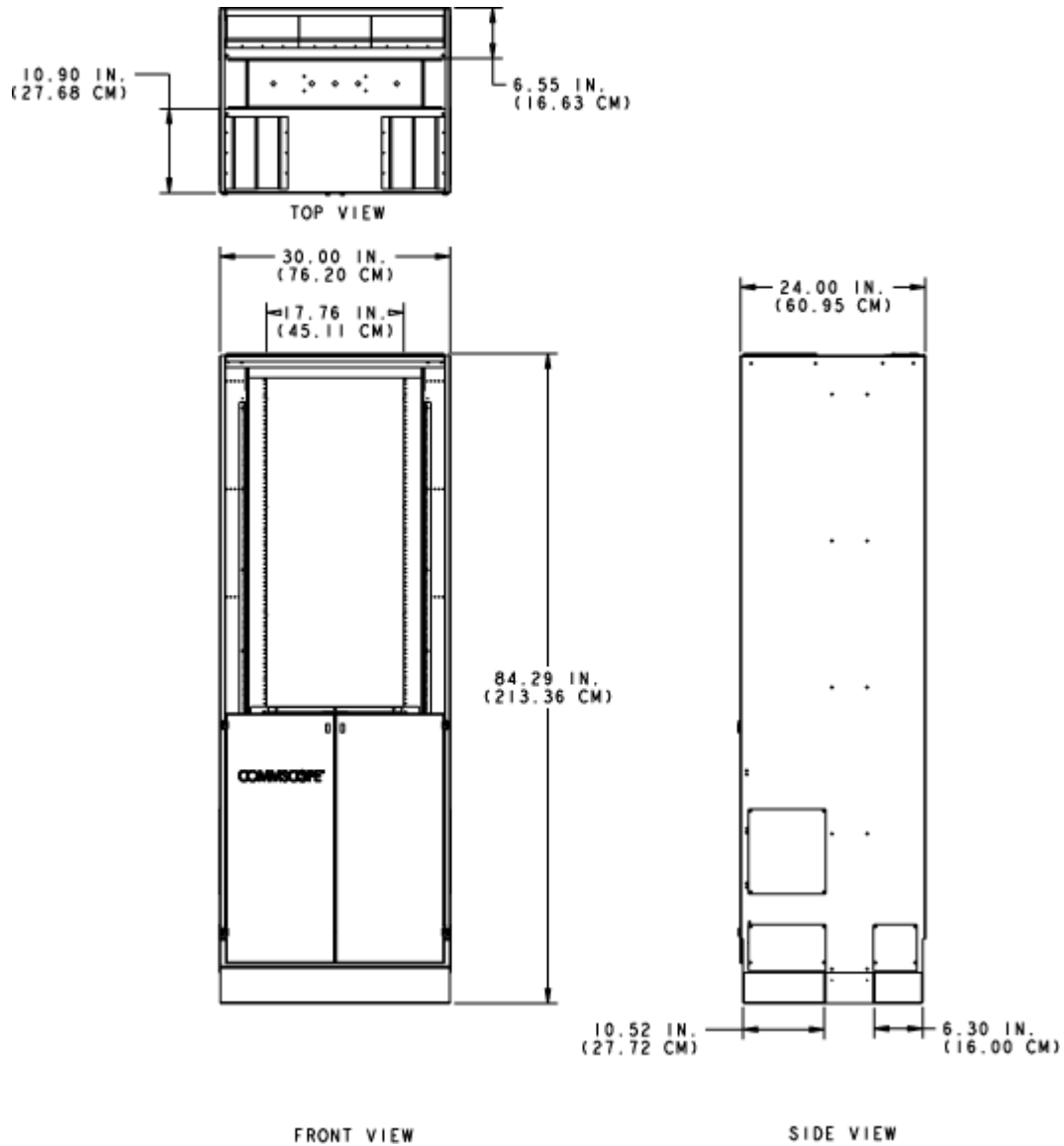


Figure 3. Flex Frame-S Dimensions

Table 1 lists installation specifications for the Flex Frame-S.

**Table 1: Flex Frame-S Installation Specifications**

Parameter	Specification 760258507 ODF-FF19CM-24RU
Mounting Space	24 Rack Units
Dimensions (H x W x D)	84.0 x 30.0 x 24.0 in. (213.4 x 133.9 x 60.95 cm);
Weight	400 lbs. (181.4 Kg); packaged weight 630 lbs. (285.8 Kg);

## 2 Unpacking and Inspection

The Flex Frame-S is shipped on a pallet within box [Figure 4](#).. Use the following procedure to inspect and unpack the items on the box.

1. Using a fork lift, move the pallet to the installation location within your facility.
2. Inspect the exterior of the shipping container(s) for evidence of rough handling that may have damaged the components in box. If damage is detected or if parts are missing, file a claim with the commercial carrier and notify CommScope Support Center at <http://www.commscope.com/SupportCenter>

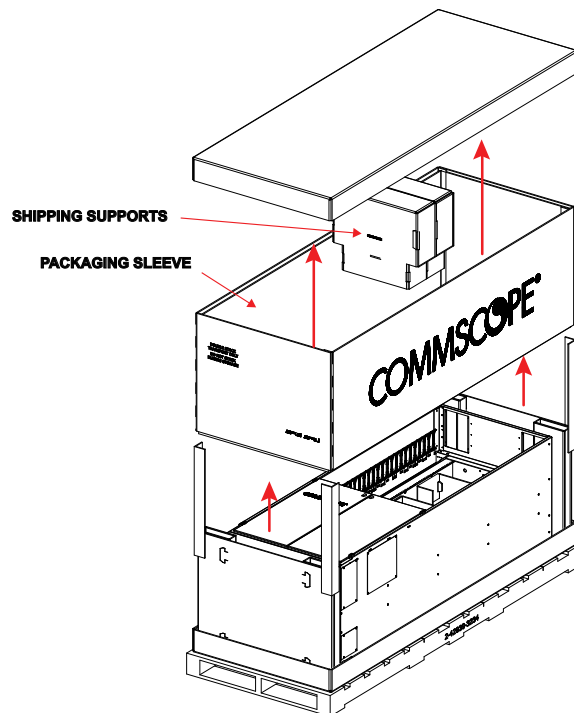


Figure 4. Flex Frame-S

**Note:** Save all shipping containers for use if the equipment requires shipment at a future date. (if required)

3. Carefully unpack the items on the pallet identifying the following:
  - Box containing hardware

## **3 Installation**

### **3.1 General**

The Flex Frame-S can be installed on a concrete floor or raised floor. Information is provided in separate sections for each scenario. Other steps are the same for concrete floor and raised floor installations.

### **3.2 Overview of Installation**

The Flex Frame-S can be installed on a concrete floor or raised floor. Installation involves the following main steps:

- The frame, while still on the pallet, is moved to the installation location.
- The installation template (Isolation PAD) is used to mark the frame footprint on the floor.
- The frame is mounted on a concrete floor or raised floor.

**Note:** Raised floor Installation kit must be separately ordered.

- Frame is grounded.
- The total assembly is final checked to ensure everything is in correct order.

### 3.3 Required Tools and Material

The following tools are required for installing the Flex Frame-S.

- Slot tip and Phillips screwdrivers - #1, #2, #3
- Level
- Socket wrench
- Set of sockets - 0.25 to 1 inch (8 to 25.4 mm)
- Set of open-end/box-end wrenches - 0.25 to 1 inch (8 to 25.4 mm)
- T7 Torx bit
- Drill with metal and concrete drill bits - 0.25 to 1 inch (8 to 25.4 mm)
- Ruler or tape measure
- Torque wrench - 19.9 ft-lbs. (27 Nm)
- Hammer
- Vacuum
- Concrete floor anchors or raised floor kit
- Scissors

### 3.4 Footprint and Installation Template

Figure 5 shows the Flex Frame-S installation template with dimensions of footprint,

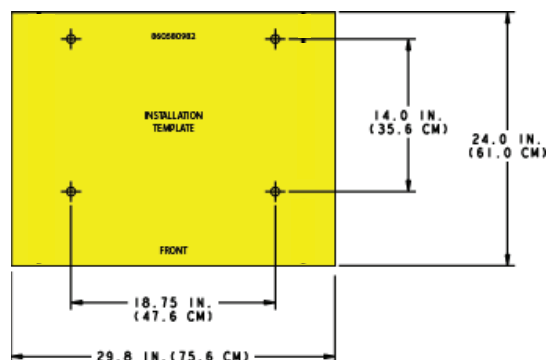


Figure 5. Frame Footprint

### 3.5 Mounting the Frame on a Concrete Floor

To mount the frame on a concrete floor, use the following procedure.

1. Determine the frame location and ensure that the front and rear aisles at that location meet the recommended minimum widths shown in [Figure 6](#). Mark the location with the installation template, as shown.

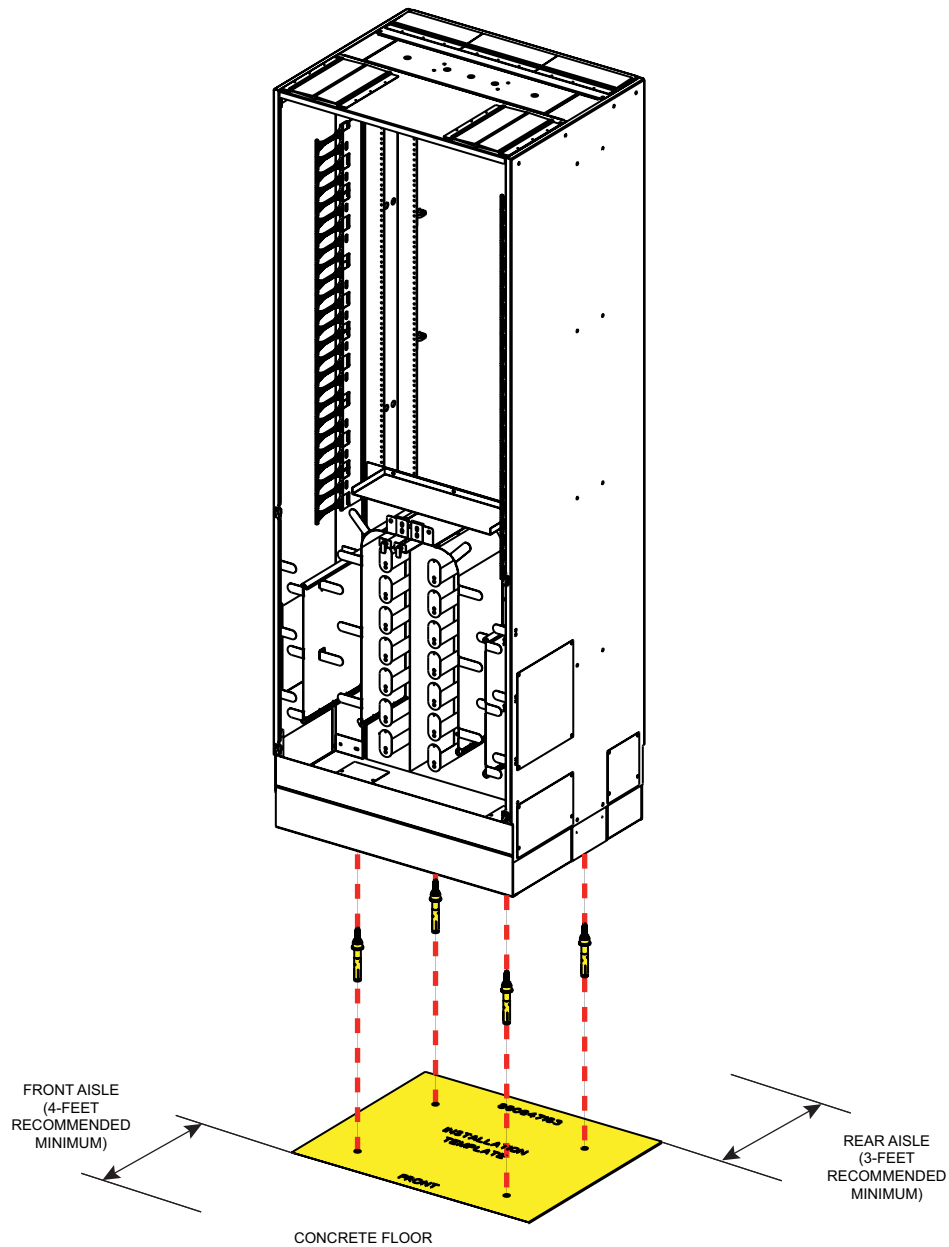


Figure 6. Determining Frame Location



- Place the installation template on the concrete floor at the location just chosen, and use it to mark the concrete for the four mounting holes as shown in [Figure 7](#).

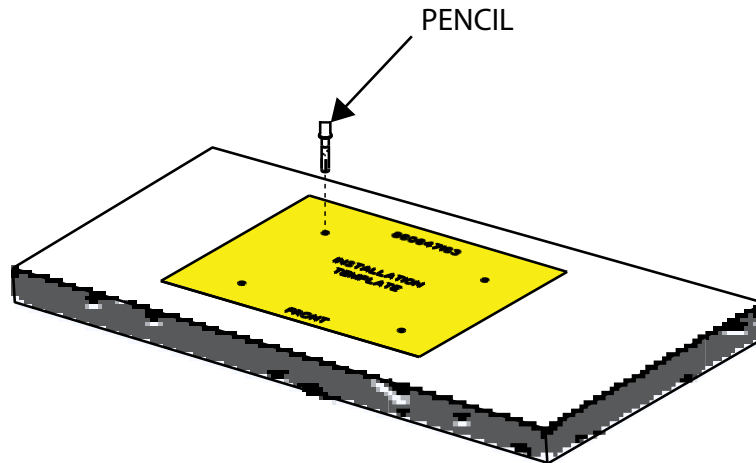


Figure 7. Marking Concrete

- Set aside the installation template and drill four mounting holes in the concrete at the marks just made, as shown in [Figure 8](#).

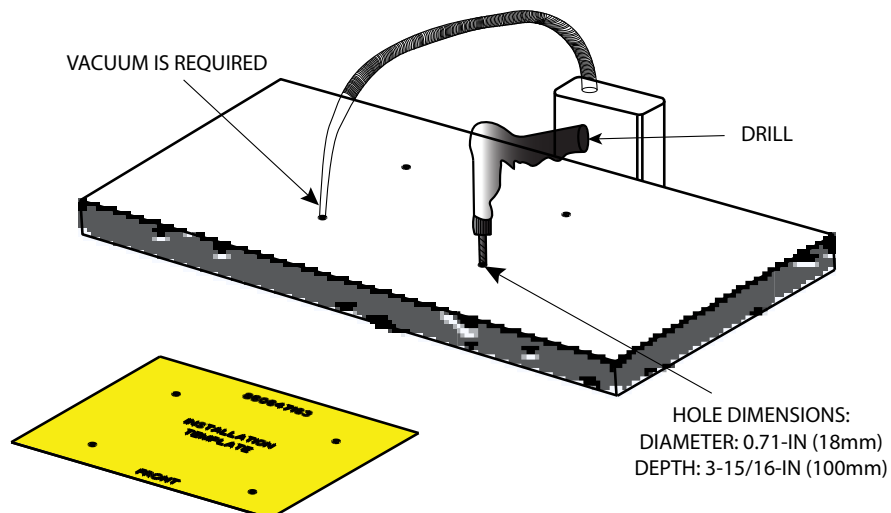


Figure 8. Drilling Mounting Holes

4. Thread the washer and torque nuts onto the threaded rod, as shown in [Figure 9](#). Insert the anchor bolt assembly into the hole. The washer should touch the top of the anchor sleeve. Tap the anchor bolt assembly with a hammer until the washer touches the concrete.

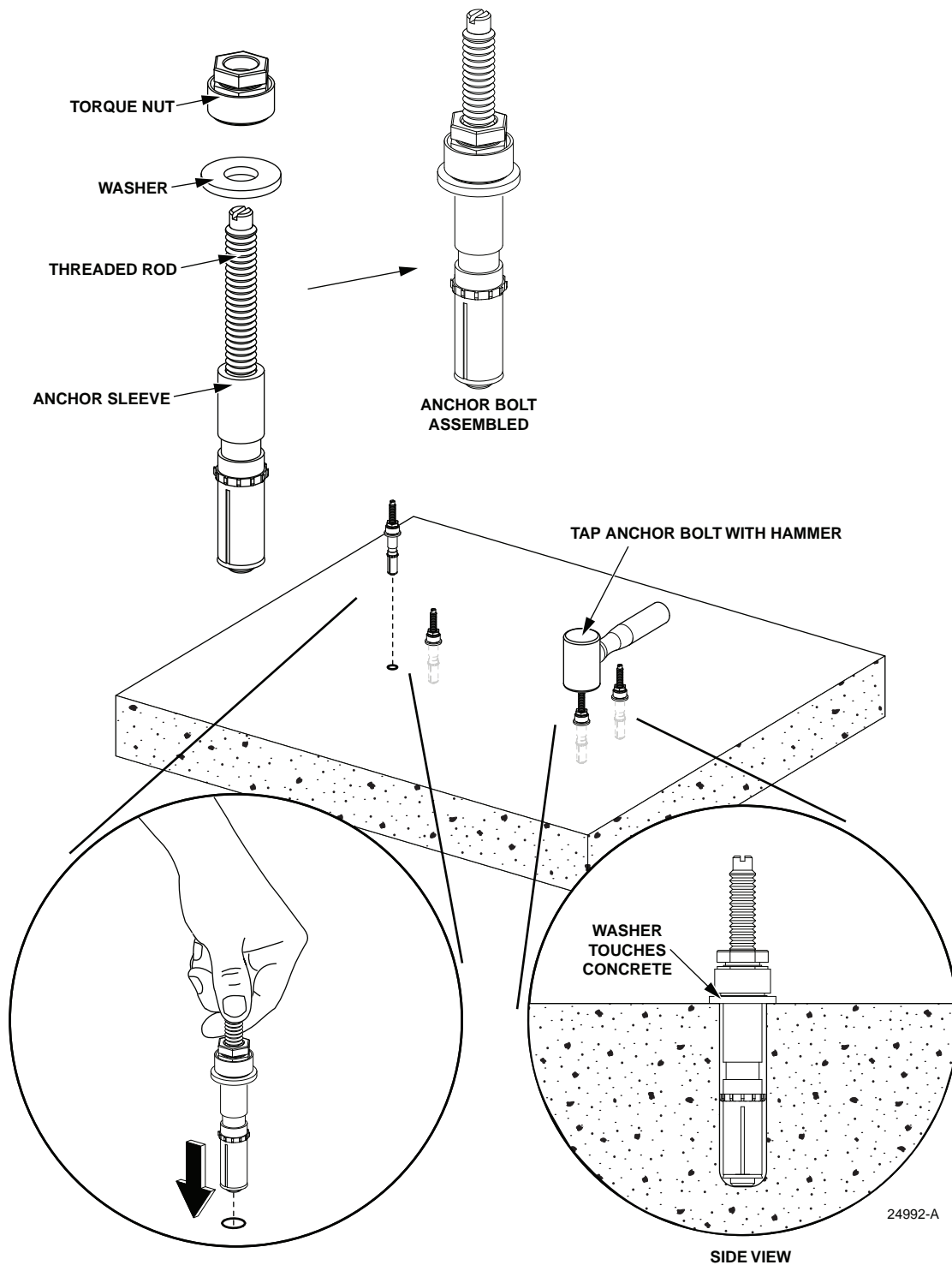


Figure 9. Installing Washer and Torque Nut on Threaded Rod

5. Pre-torque the anchor bolt to approximately 30 foot-pounds (41 Newton meters). Refer to [Figure 10](#).

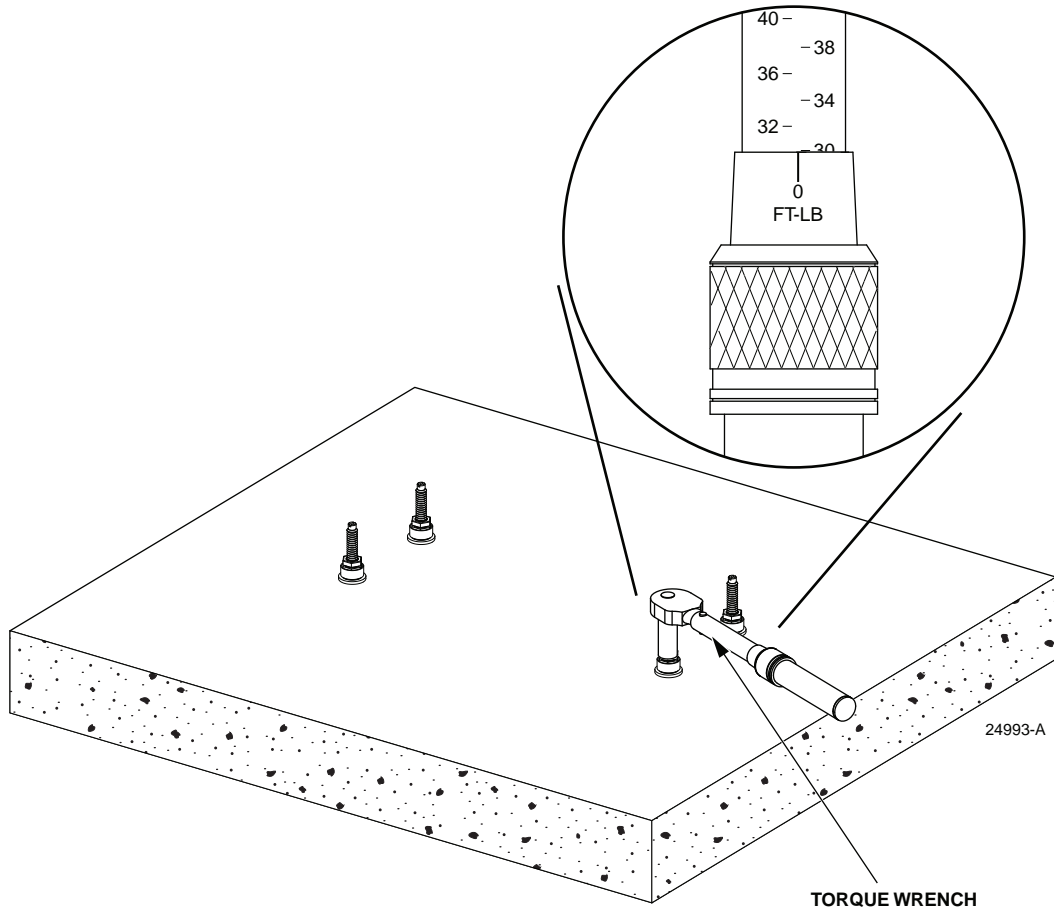


Figure 10. Pre-torquing Anchor Bolt

6. Loosen the torque nuts several turns, and then remove the torque nut and washer, as shown in [Figure 11](#).

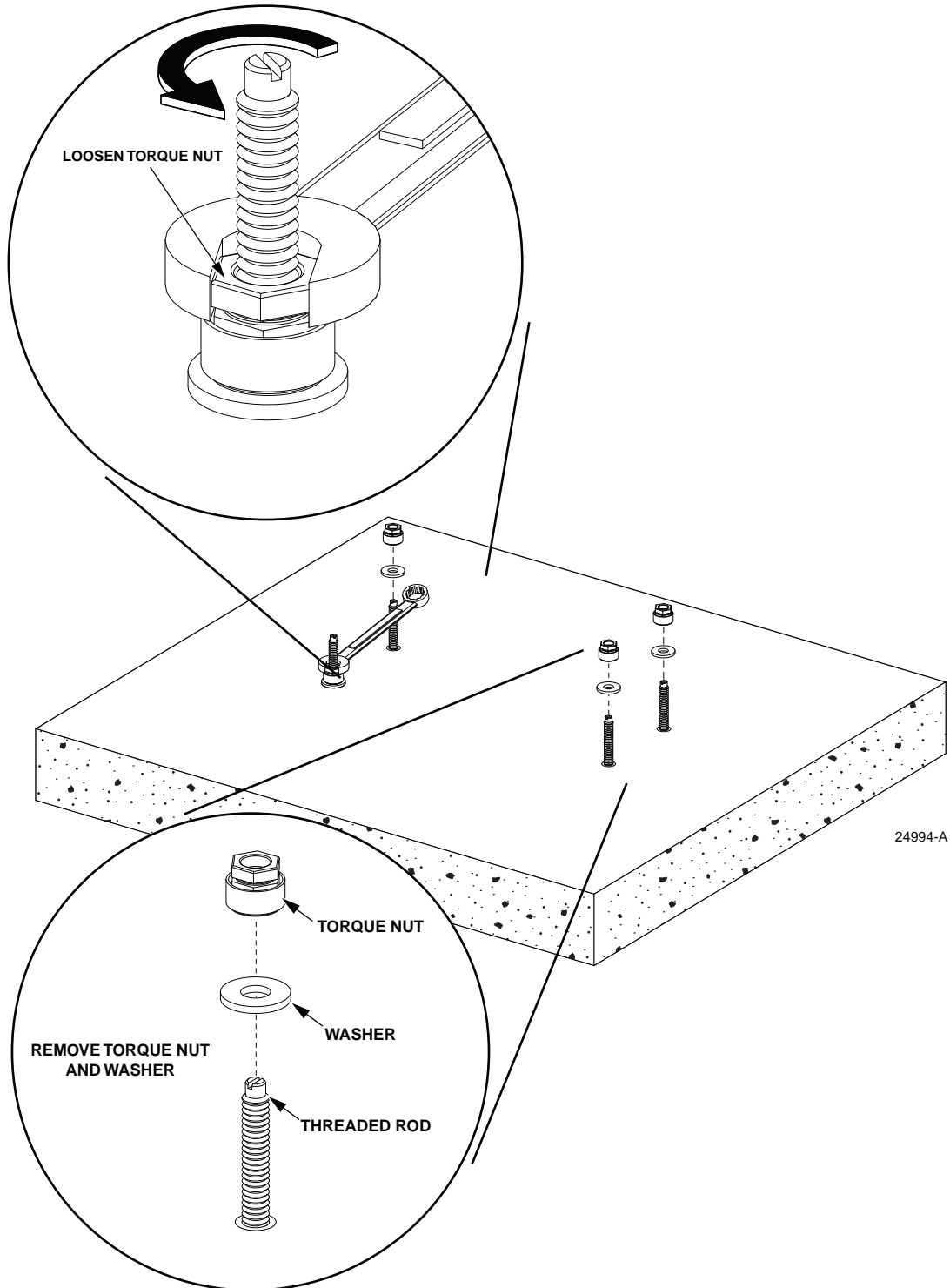


Figure 11. Removing Torque Nut and Washer

### 3.6 Mounting the Frame on a Raised Floor

7. The Flex Frame-S can be mounted on a raised floor using the CommScope Raised Floor Mounting Kit, 5/8" (FDF-ACC146). Figure 12 shows an exploded view of the kit components. To order the kit, refer to the following URL: <https://www.commscope.com/product-type/cabinets-panels-enclosures/frames-racks-cabinets/accessories/itemfdf-acc146/>

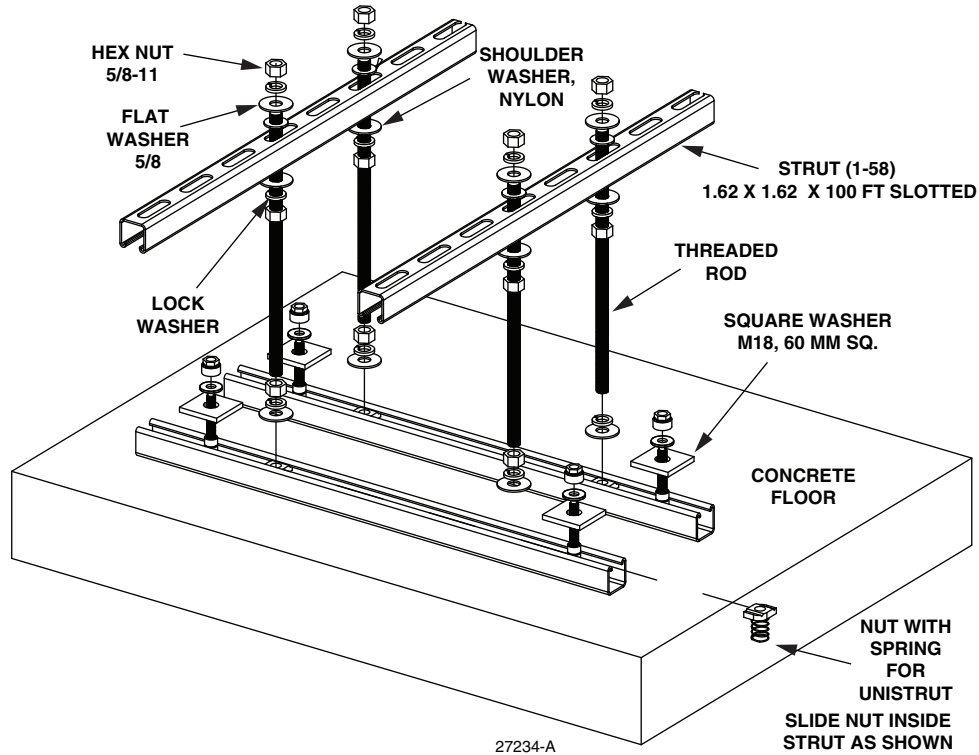


Figure 12. CommScope Raised Floor Mounting Kit, 5/8" (FDF-ACC146) Components

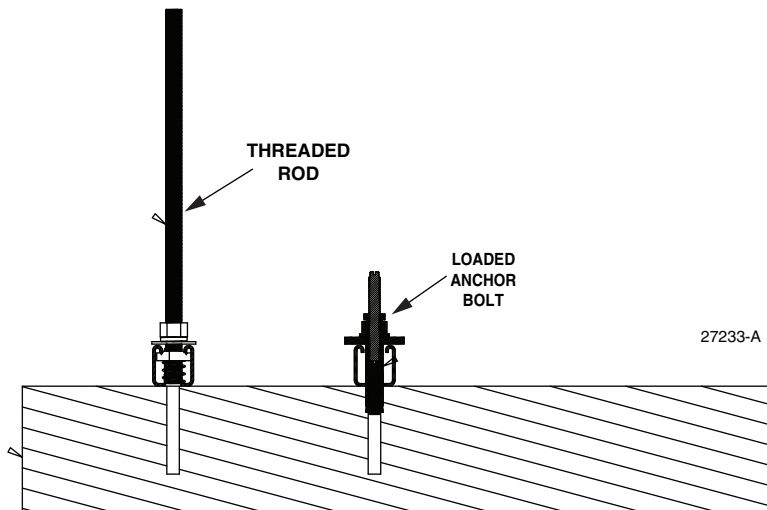


Figure 13. Side View of Typical Concrete Floor Anchor (4 Places)

### 3.7 Grounding Frame

Figure 14 shows the location of the #10-32 ground studs on the front of the Flex Frame-S. The studs are intended for a ground strap with a 2-hole lug with 5/8-inch hole spacing. Ground with AWG wire conforming to local standards.

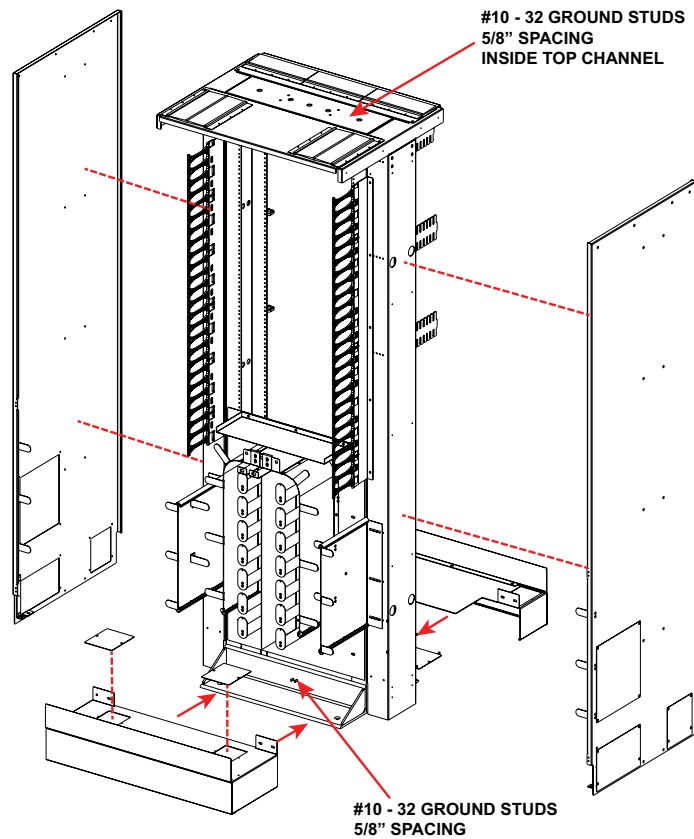


Figure 14. Grounding the Frame

## 4 Contact Information

- To find out more about CommScope® products, visit us on the web at [www.commscope.com](http://www.commscope.com)
- For technical assistance, customer service, or to report any missing/damaged parts, visit us at <http://www.commscope.com/SupportCenter>