# CORNING

## Enhanced Management Frame

## 1. General

This instruction describes the procedure to install the Enhanced Management Frame (EMF) onto a concrete or raised floor.

Contact your customer service representative to purchase accessories that are sold separately.

**NOTE:** *It is assumed that the floor plan, space allocation, layout work, and provisions to secure the frame to the floor have been previously determined.*

| | |
|---|---|
| Frame Height | 213.4 cm (84 in.) |
| Frame Depth | 43.2 cm (17 in.) |
| Frame Width | 86.4 cm (34 in.) |
| Frame Weight (Empty) | 63.5 kg (140 lb) |
| Housing Weight (Empty) | 4.1 kg (9 lb) |

## 2. Tools and Materials Required

- Power drill
- 16 mm (5/8 in.) or 18 mm (45/64 in.) drill bit
- Adjustable wrench

*Optional materials purchased separately:*

- Isolation pad (CCF-PAD-KIT)
- Raised floor kick plate (CCF-RAISEDFLOOR)
- Newton Instruments raised floor anchor kit (22033600XX)
- Threaded rod cutoff tool for Newton anchor kit

## 3. Installing onto a Concrete Floor

**Step 1:** Remove screws holding base cover and jumper transition panels (Figure 1). Temporarily remove the jumper transition panels to allow the cover to be removed. Slide the cover off the base.

**Step 2:** Remove the rear support base if the frame is to be placed with its back against a wall (refer to Section 4).
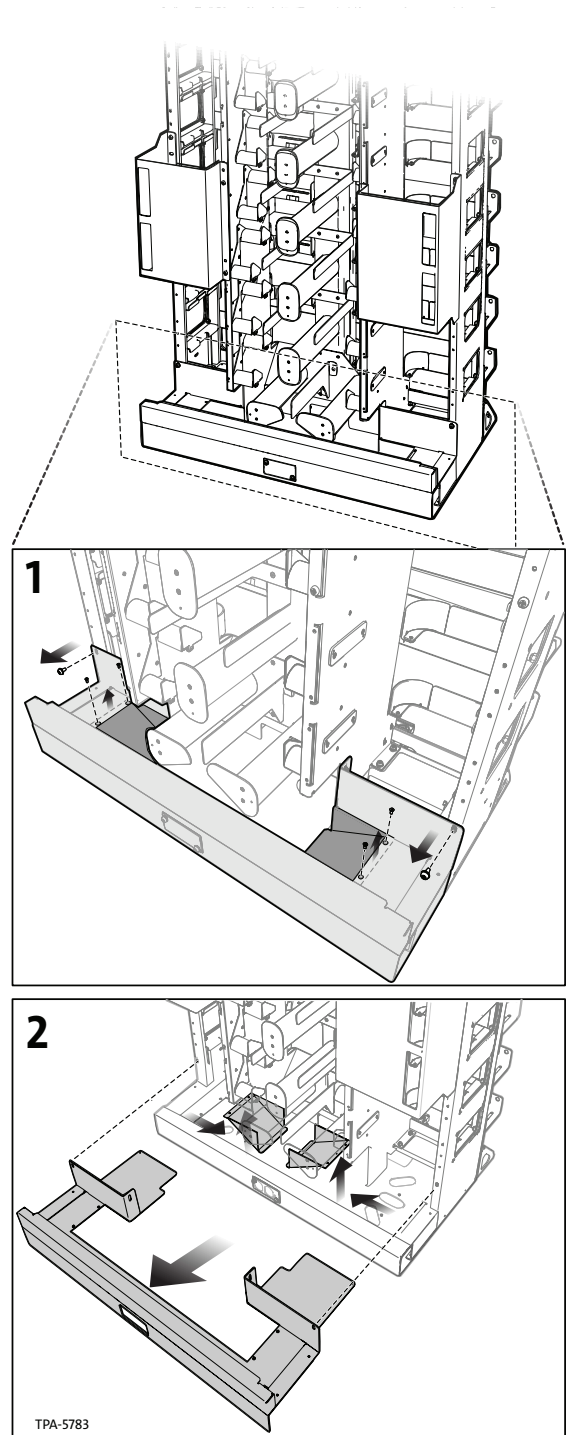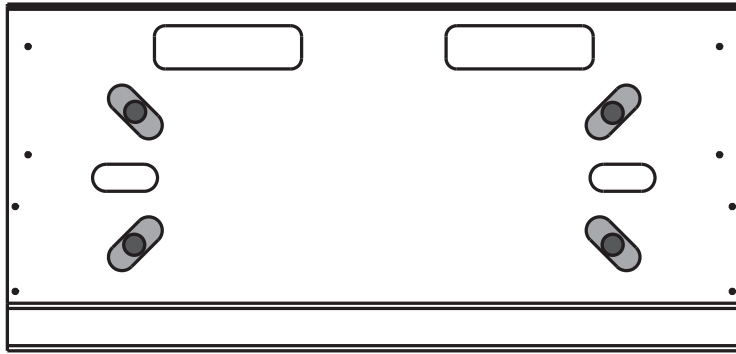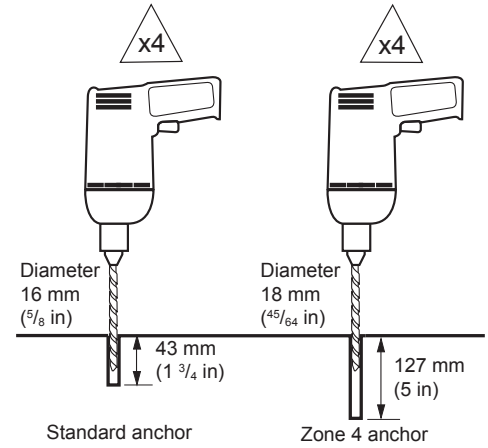


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Figure 1

**Step 3:** Using the provided template, mark the floor for drilling using the center point of the gray obround holes (Figure 2).

**NOTE:** *Minimum thickness of base material is 160 mm (6.3 in).*
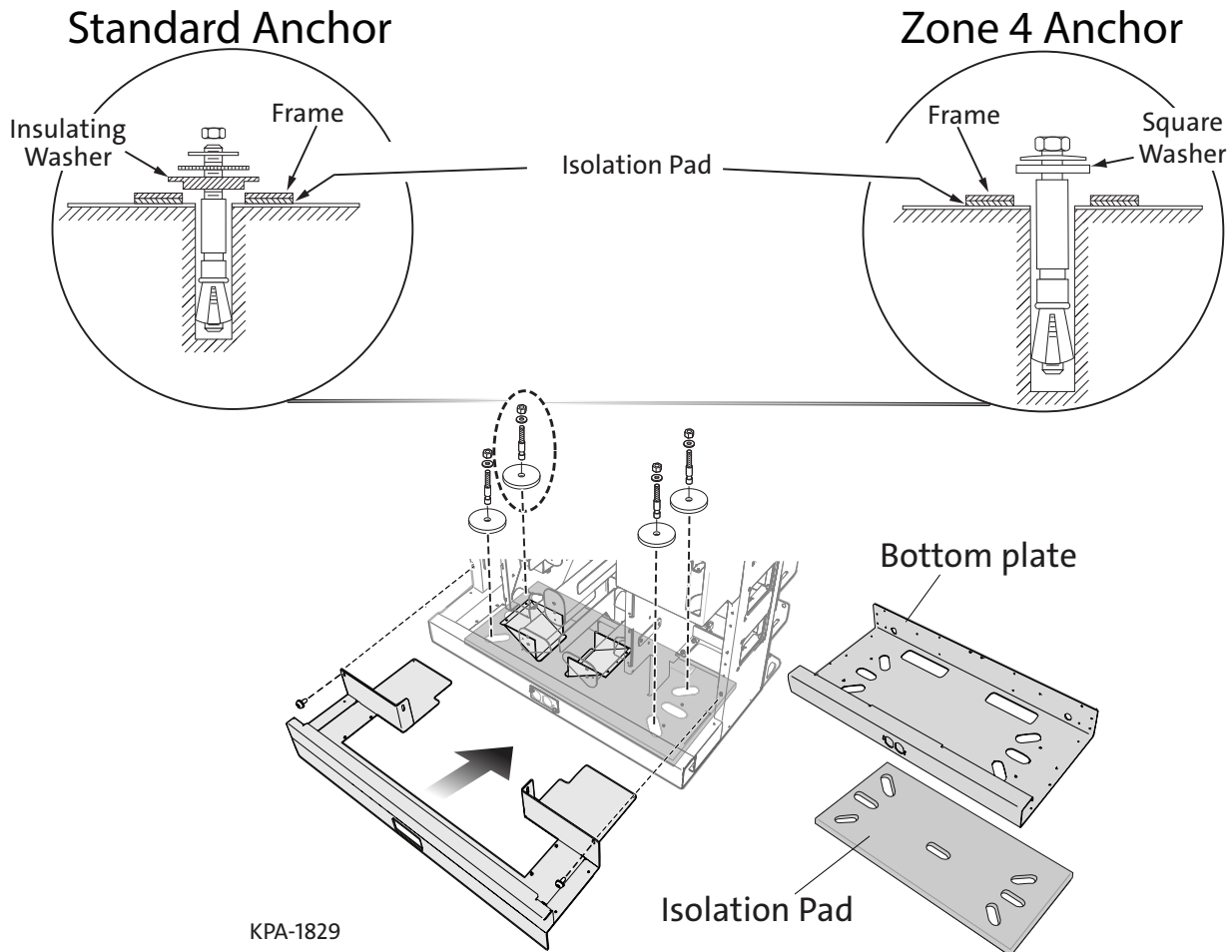

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Figure 2



x4    x4

Diameter 16 mm (⁵/₈ in)    Diameter 18 mm (⁴⁵/₆₄ in)

43 mm (1 ³/₄ in)    127 mm (5 in)

Standard anchor    Zone 4 anchor

KPA-1834

Figure 3

**Step 4:** Drill holes for the anchor bolts and remove debris (Figure 3).

**Step 5:** Place isolation pad, if required, then the frame over the holes.

**Step 6:** Insert anchor bolts (Figure 4) and secure per local practices.

**Step 7:** Slide the base cover back into position. Reinstall jumper transition panels to the front base cover and secure all with the screws previously removed.

## Standard Anchor

## Zone 4 Anchor



Insulating Washer

Frame

Isolation Pad

Frame

Square Washer

Bottom plate

Isolation Pad

KPA-1829

Figure 4

**Step 8:** If your installation requires the rack to be supported from the top, use a 1/2-in diameter J-bolt or threaded rod to secure the rack to the overhead support. This hardware is not provided (Figure 5).

## 4. Installing the EMF Frame on a Raised Floor with Cable Access from Below the Frame

Note: in multi-frame lineups, use two #10-32 x 3/4-in screws with #10 lock washers and locking nuts (not provided) to attach frames together.



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Figure 5

**Step 1:** Position the frame in the desired location to cut cable access holes in the floor.

**Step 2:** Remove front cover and jumper transition panels per the instructions in Section 3.
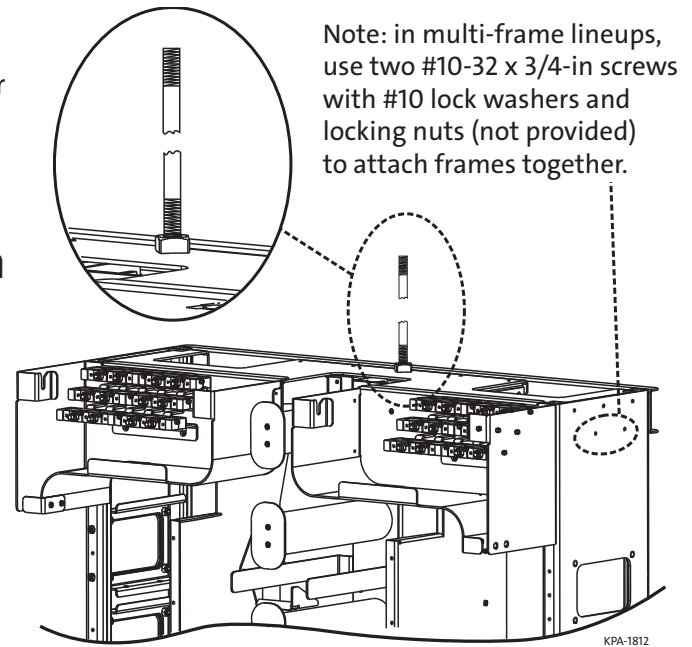
**Step 3:** Remove the 10 screws on the back of the frame in the location where the rear support base is installed. Remove the base from the rear of the frame and reattach it with the large cutout against the floor (Figure 6). The two small openings should be in a vertical orientation against the back of the frame. Reattach with the same 10 mounting screws previously removed.
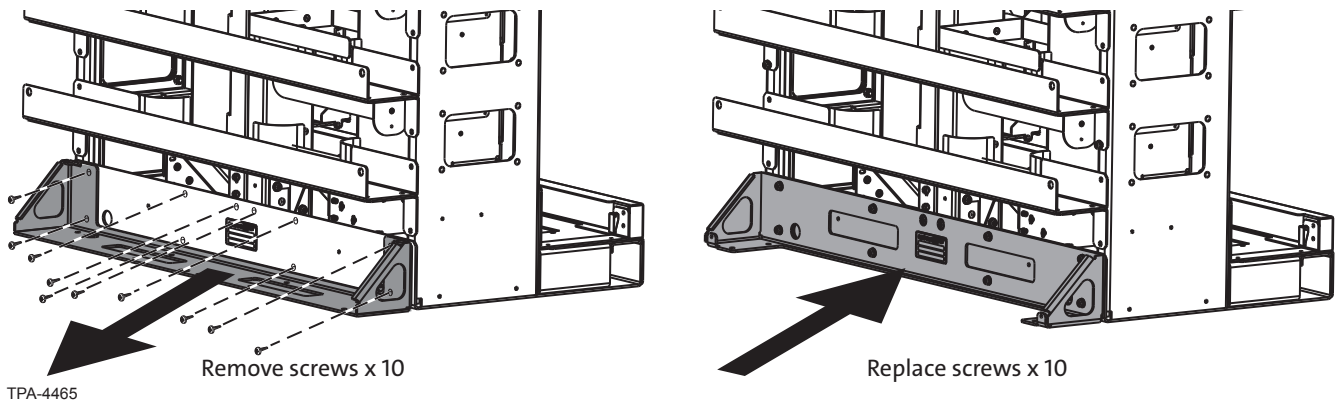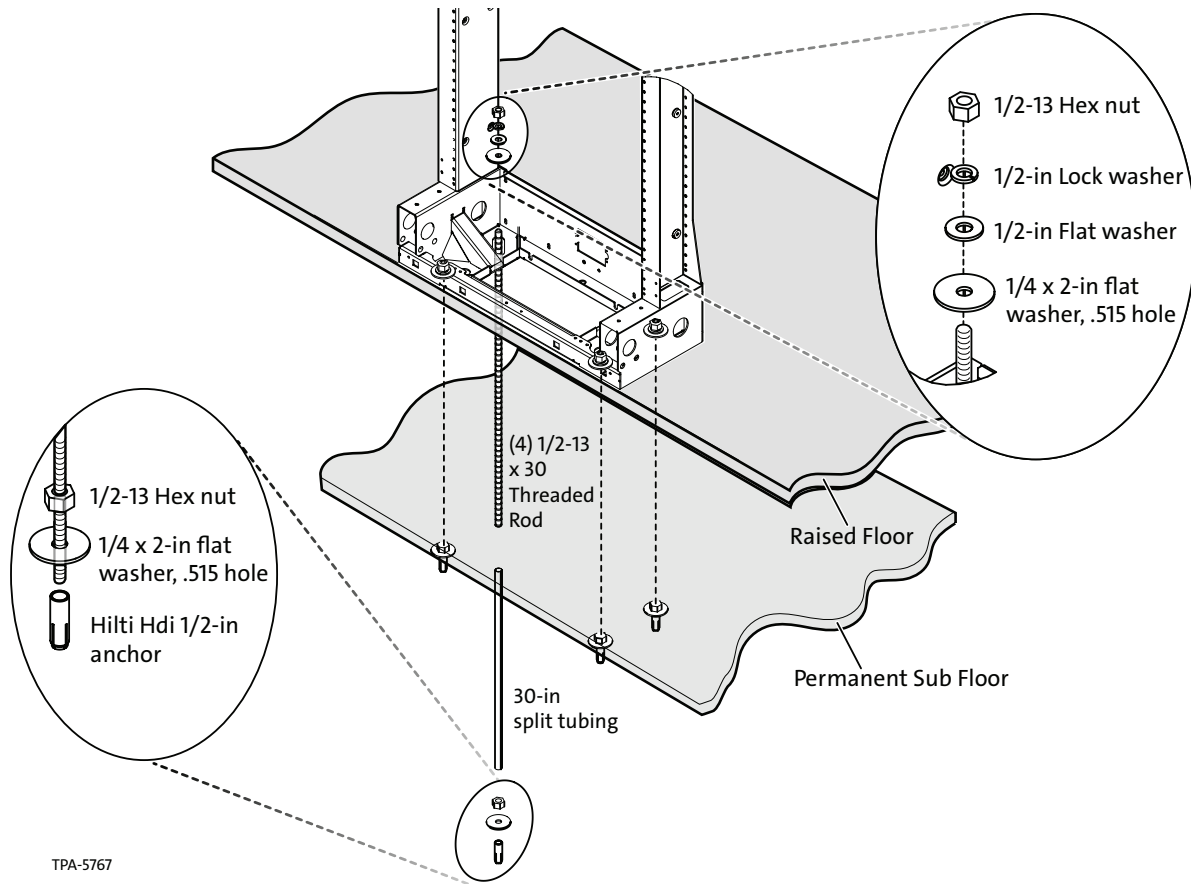


Remove screws x 10

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Replace screws x 10

Figure 6

**Step 4:** Using the floor anchor kit for raised floor from Newton Instruments (p/n 22033600XX, purchased separately), mount the frame through the raised floor and to the frame base (Figure 7).

**Step 5:** Install the threaded rod using a 5/8-in drill bit with a minimum embedment depth of 2-in.

**Step 6:** Trim the split tubing to fit the final assembled height of the threaded rod. The tubing can be slipped over the rod after assembly.

**Step 7:** Slide the base cover back into position. Reinstall jumper transition panels to the front base cover and secure all with the screws previously removed.
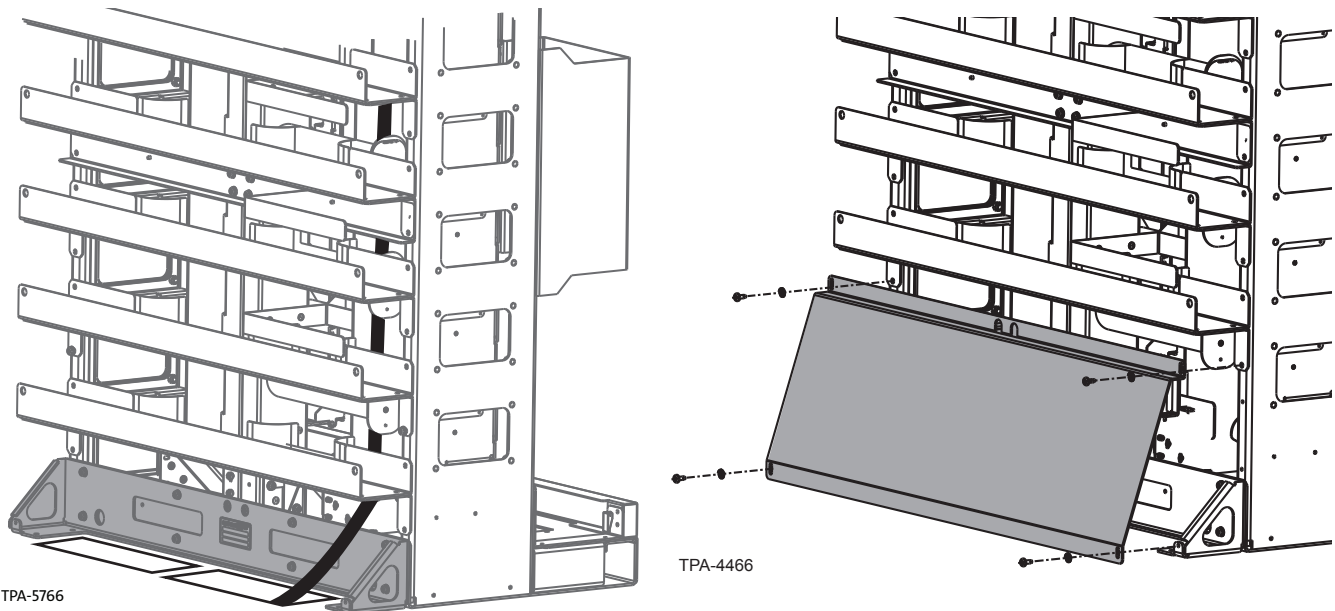
1/2-13 Hex nut

1/2-in Lock washer

1/2-in Flat washer

1/4 x 2-in flat washer, .515 hole

(4) 1/2-13 x 30 Threaded Rod

Raised Floor

Permanent Sub Floor

30-in split tubing

1/2-13 Hex nut

1/4 x 2-in flat washer, .515 hole

Hilti Hdi 1/2-in anchor

TPA-5767

Figure 7

**Step 8:** Route the cable from under the floor into the back of the frame as shown in Figure 8.

**Step 9:** After all the cables are routed and terminated in the EMF frame, position the EMF kick plate at the back of the frame base (Figure 8) and attach with the hardware provided in Corning Optical Communications kit (p/n CCF-RAISEDFLOOR, purchased separately).



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Figure 8