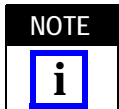


Figure 1

## 1. INTRODUCTION

This instruction sheet provides installation procedures for the ZCTC Raised Floor Enclosures 1479359-1 (for 10.2 cm [4-inch] raised floor), 1479042-1 (for 15.2 cm [6-inch] raised floor), 1479043-1 (for 20.3 cm [8-inch] raised floor), 1479360-1 (for 25.4 cm [10-inch] raised floor, and 1479044-1 (for 30.5 cm [12-inch] raised floor). See Figure 1.

The cabinet is a passive termination/consolidation point designed for low-voltage applications.



*All numerical values are in metric units [with U.S. customary units in brackets]. Figures are not drawn to scale.*

## 2. DESCRIPTION

The ceiling tile grid system must be installed prior to the installation of this cabinet. The cabinet is designed to be hung from four 9.52 mm [3/8-in.] diameter threaded rods attached to the building structure, or

standard construction grade suspension wire and hardware, in accordance with local codes and regulations.

## 3. INSTALLATION PROCEDURES

### 3.1. Unpacking Enclosure

Prepare a location for the enclosure to be positioned for inspection.

Remove the enclosure from the shipping container and place it on its side. Check to be sure the cabinet is the correct size for the depth of the access floor. Remove all mounting accessories including the fire-rated foam kits and four floor pedestal brackets.

Check that the following components are included:

1. One ZCTC (Zone Cabling Termination Cabinet)
2. Four leveler bolts
3. Four support brackets (RF-BKT)

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4. Four cable entry port covers
5. One FP-B33-11 plenum rated foam kit
6. Installation instructions

The following tools and supplies (installer provided) will be needed for installation:

1. Suction cup or other floor tile removal tool
2. Open end wrenches (7/16 and 1/2)
3. Screw drivers

### 3.2. Locating Cabinet Placement

Determine the location for cabinet installation. Remove all obstacles that would interfere with installation.

### 3.3. Floor Tile Removal

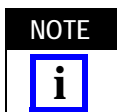
Remove the tile from the specified location. Remove four tiles adjacent to the space allocated for installation.

Remove two of the stringers that go between the tile support stanchions or pedestals. Set them aside, they will be replaced once the cabinet is placed under the level of the stringer system.

### 3.4. Installing Support Brackets, Cabinet, and Stringers

1. The support brackets are to be mounted under the cabinet. Place a support bracket on each corner support stanchion, pointed towards the center of the cabinet. Make sure the brackets are mounted low enough, leaving adequate space for the cabinet to clear the level of the floor.
2. Place the cabinet in the selected area by tilting the unit at an angle, in order to clear the floor with the wings that on all four sides. Place the cabinet on the support brackets.
3. Replace the stringers and tighten down the screws. Slide the cabinet up the support stanchions until the upright part of the wings center themselves in the stringers. Tighten the nuts on the support brackets to secure the cabinet up under the stringer grid.
4. Use the leveler screws (in the holes provided in the bottom of the cabinet) to level or tighten the unit to the stringers.

### 3.5. Installing Cable



*Total weight of cable and apparatus inside cabinet is not to exceed 31.7 kg [70 lbs]. The maximum number of cables should not exceed 96 (4-pair), 16 (25-pair copper), or 96 (4-fiber) cables.*

With the cabinet in place and supported, install the cables. Install the cables against the back wall and secure cables with plastic cable ties or Velcro<sup>†</sup> cable straps. Prepare all cable ends and terminate according to equipment manufacturing specifications. Replace the floor tiles.

<sup>†</sup>Trademark of Velcro Industries B.V.

## 4. FIRE PENETRATION KITS (Installation Instructions)

These kits are used to seal the unit with fire penetration foam around installed access cables.

1. Remove the top plate from the first penetration to be cabled.
2. Sort and comb cables for smooth and straight access through the penetration. See Figure 2.
3. Lift the cables and place two layers of foam underneath the cables.

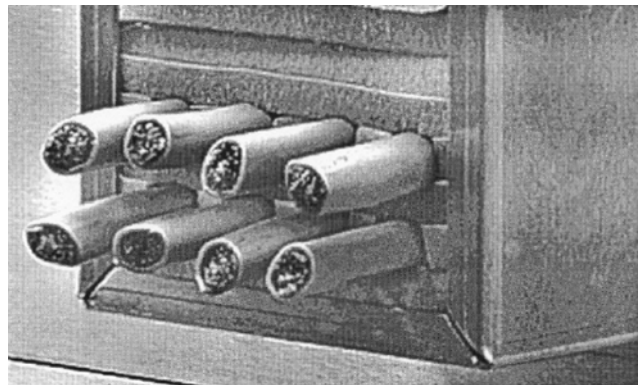
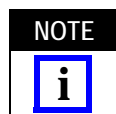


Figure 2

4. Place cables and space them so strips of foam can be firmly inserted between them to create a seal. Cut foam strips, at least 9.52 mm [.375 in.] wide, to be placed between the cables.
5. Put down a layer of foam and repeat the process until all cables are beaded between layers of foam.
6. Take the remainder of the foam and fill the void to the top of the penetration and compress down with the top plate. Be careful not to bind cables in excess of cable manufacturers specifications.



*It is suggested that the cables be staggered in their layers to give a better seal. Example: First row - four cables; second row - five cables; third row - six cables; fourth row - 5 cables; fifth row - six cables, and so on.*

## 5. REVISION SUMMARY

Since the previous version of this document, the following changes were made:

- Updated document to corporate requirements.