

## COYOTE® AXCESS SOLUTIONS RACK MOUNT CABINETS

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED™ product before application.

Catalog Number	Product Descriptions
RDC3	Rack Mount Cabinet - Splice and Connect up to 36 Fibers
RDC6	Rack Mount Cabinet with - Splice and Connect up to 72 Fibers
RDC12	Rack Mount Cabinet - Splice and Connect up to 144 Fibers
RDC24	Rack Mount Cabinet - Splice and Connect up to 288 Fibers

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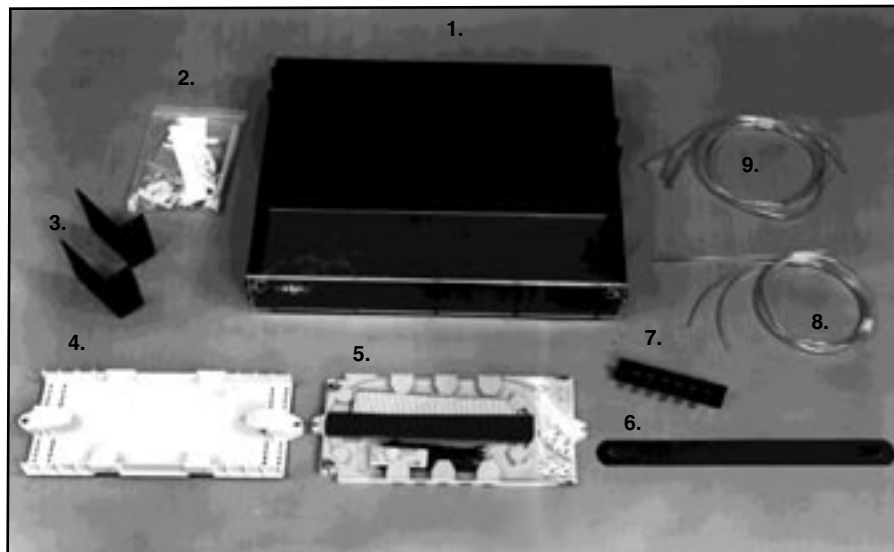


FIGURE 1 - NOMENCLATURE

### 1.00 NOMENCLATURE

#### 1.01

1. Rack Mount Cabinet Assembly
2. Small Parts Bag (mounting screws, tie wraps, splice tray labels)
3. Mounting Brackets (2)
4. Transition Assembly

5. Splice Tray(s) (sold separately)
6. Splice Tray Hold Down Strap
7. Adapter Module (sold separately)
8. Transport Tubes
9. Pigtail Tube Assemblies

## 2.00 DESCRIPTION

**2.01** The COYOTE® Rack Mount Cabinets are designed to protect and organize optical fiber splices and connectors in the central office, equipment room, CEV and building entrances.

**2.02** Four sizes of cabinets are available to accommodate from 6 to 288 fiber splices and connectors, using the COYOTE Splicing System.

**2.03** The Transition Assembly and Splice Tray(s) in the rear splicing area are the same as used in the COYOTE Closure. Each Splice Tray accommodates 24 splices per tray in this application.

**2.04** The Mounting Brackets allow mounting the cabinets to either 19" (483 mm) or 23" (584 mm) equipment racks or cabinets.

**2.05** Adapter Modules are available with all standard fiber optic connectors and are ordered separately.

## 3.00 MOUNTING ON RACK

**3.01** Attach the appropriate Mounting Bracket to each side of the cabinet using the screws provided. Shorter brackets are included for mounting to a 19" (483 mm) equipment rack. The longer brackets are used for mounting to a 23" (584 mm) equipment rack.

**3.02** Mount the cabinet to the equipment rack at the desired height with the screws provided.

**PLP Tip:** Cabinets have keyhole slots for wall mounting.

## 4.00 PREPARATION AND ROUTING OF FEEDER CABLE

**4.01** Remove a minimum of 90" (2,286 mm) of sheath from the cable, and clean cable according to accepted company practices.

**4.02** Remove the rear cover from the cabinet by turning the 1/4-turn fasteners counter clockwise.

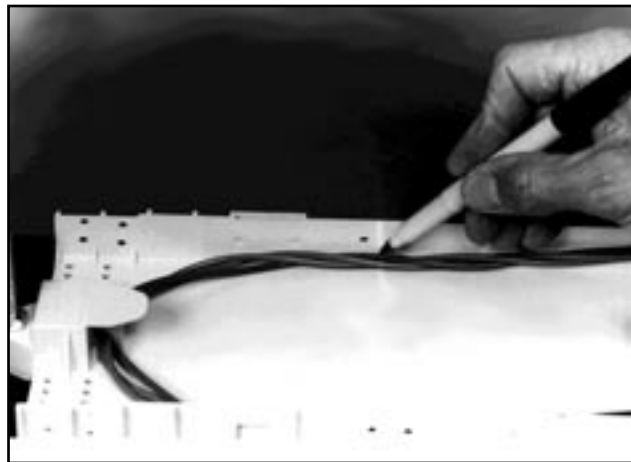
**4.03** Remove the Splice Tray Hold Down Strap from the threaded posts, and remove the Splice Tray(s) to expose the Transition Assembly.

**4.04** Slit the grommet in the cable entry at the rear of the cabinet on the side being used for cable entry, and position the cable into the entry.

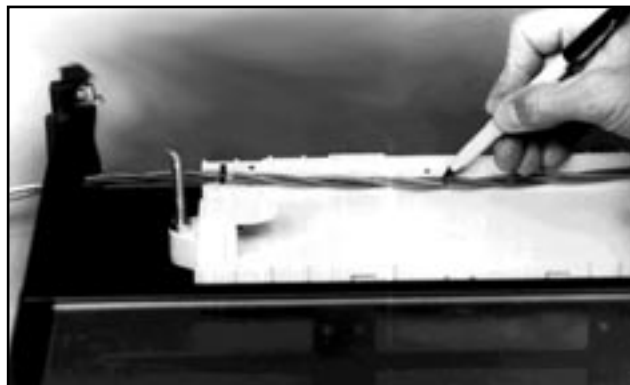
**4.05** Lay the buffer tubes or unitube into the Transition Assembly. For unitube application, skip to Step 4.11.

**PLP TIP:** The retaining tabs on top of the Transition Assembly are removable to facilitate placement of buffer tubes.

**4.06** Mark the buffer tubes at the back wall centerline of the Transition Assembly as shown in Figure 2. (Note that for cable entry into the right side of the cabinet the buffer tubes are routed against the front of the Transition Assembly and then around to the back wall.)



**FIGURE 2A - MARK BUFFER TUBES FOR RIGHT SIDE CABLE ENTRY**



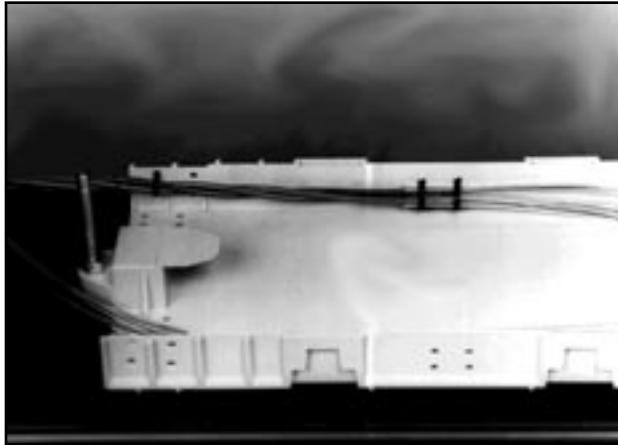
**FIGURE 2B - MARK BUFFER TUBES FOR LEFT SIDE CABLE ENTRY**

**4.07** Starting with one of the buffer tubes, remove the buffer tube up to the mark, and clean the fibers per your accepted company practices.

**4.08** Feed the fibers from this buffer tube into one of the Transport Tubes provided with the cabinet. Insert the end of the buffer tube 1/2" (13 mm) into the Transport Tube.

**4.09** Repeat Steps 4.07 and 4.08 for the remaining buffer tubes.

**4.10** Using two of the tie wraps supplied with the Splice Tray(s), secure the buffer tubes and Transport Tubes to the back wall of the Transition Assembly. (Figure 3) Proceed to Step 4.16.



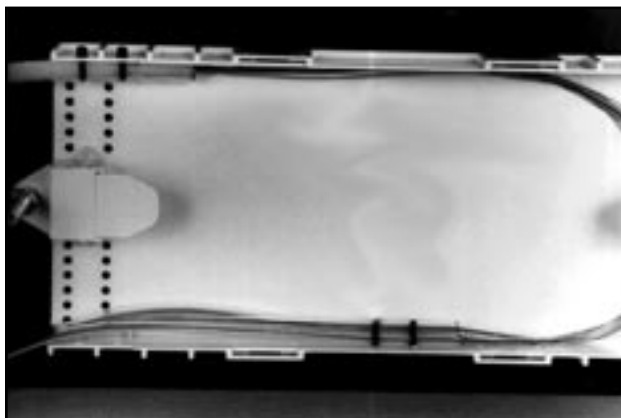
**FIGURE 3 - SECURE BUFFER TUBES & TRANSPORT TUBES TO TRANSITION ASSEMBLY**

**4.11** Mark the unitube at a point 2" (51 mm) from where it enters the Transition Assembly (for either right or left side cable entry).

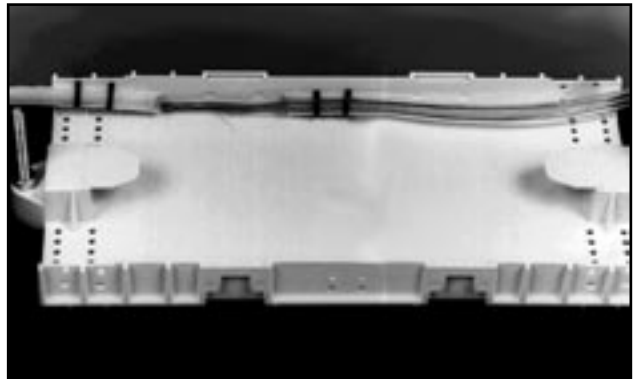
**4.12** Remove the unitube and clean the fibers per your accepted company practices. Make sure to maintain the identity of each bundle of twelve fibers.

**4.13** Secure the unitube to the Transition Assembly with the tie wraps provided. Use two sets of the tie down holes in the side of the Transition Assembly.

**4.14** Feed each bundle of fibers into one of the Transport Tubes provided with the cabinet so that the end of the Transport Tubes will be located just beyond the center-line of the back wall of the Transition Assembly. (Figure 4)



**FIGURE 4A - FIBER ROUTING & TRANSPORT TUBE LOCATION FOR RIGHT SIDE CABLE ENTRY**



**FIGURE 4B - FIBER ROUTING & TRANSPORT TUBE LOCATION FOR LEFT SIDE CABLE ENTRY**

**4.15** Secure the Transport Tubes to the back wall of the Transition Assembly with two of the tie wraps provided. Be sure that the fibers are not bent as they enter the Transport Tubes. If necessary, use some of the felt tape provided to secure the fibers to the Transition Assembly.

**4.16** Carefully coil the Transport Tubes and bare fibers into the base of the Transition Assembly until a later step in this procedure.

## **5.00 PIGTAIL PREPARATION & ROUTING**

**5.01** The following are the required pigtail lengths for each COYOTE Access Solutions Rack Mount Cabinet:

RDC3.....	3 meters
RDC6.....	3 meters
RDC12.....	3 meters
RDC24.....	3 meters

**5.02** Select one of the Adapter Modules (purchased separately) and install it in one of the locations in the cabinet bulkhead. Push the locking fasteners at the ends of the Coupler Plate to secure it in place.

**PLP TIP:** For the RDC6 Cabinet, install the lower row of Coupler Plates first.

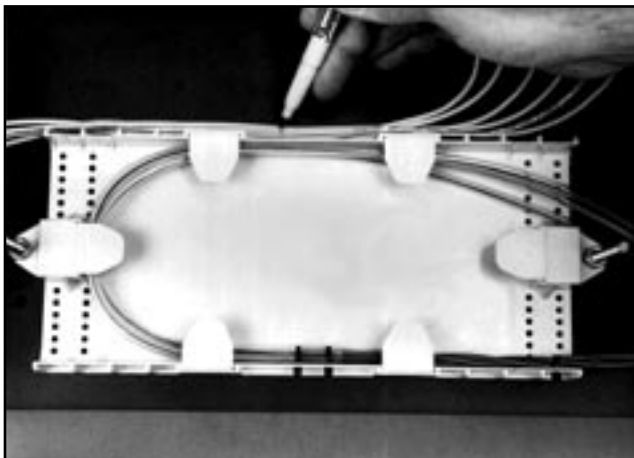
**5.03** Select six pigtails, clean the fiber connector, and connect them to the rear side of the Coupler Plate.

**5.04** Route the pigtails along the Transition Assembly toward the right side of the cabinet, while maintaining a smooth bending radius behind the Adapter Modules. (Figure 5)



**FIGURE 5 - ROUTE THE PIGTAILS**

**5.05** Mark the jacket of each of the pigtails at a point about 2" (13 mm) beyond the bending radius as shown in Figure 6.



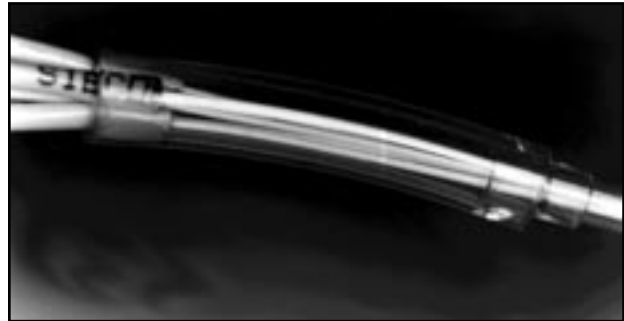
**FIGURE 6 - MARK PIGTAILS**

**5.06** Carefully remove the jacket on each pigtail up to the mark. Number or color code the connector strain relief and the 900 micron tight buffer of each pigtail for fiber identification.

**PLP TIP:** PLP® has pigtails available with different colored 900 micron tight buffer coatings to simplify fiber identification.

**5.07** Feed the group of six buffered fibers into the end of one of the Pigtail Tube Assemblies with the larger diameter tube section, until the pigtail jackets are within the larger tube 3/8" to 1/2" (10 mm to 13 mm). (Figure 7)

**PLP TIP:** Moisten the ends of the pigtail jackets to ease insertion into the tube.

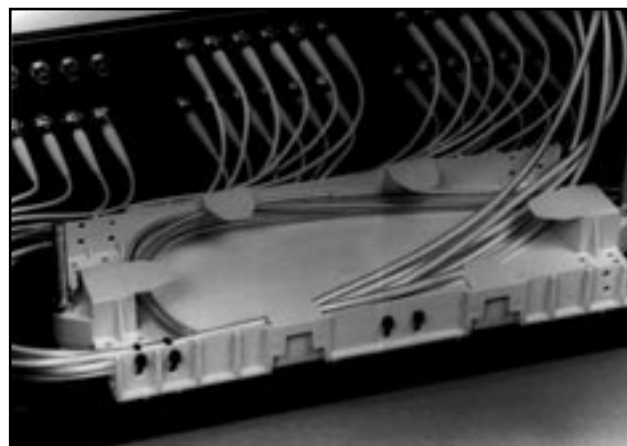


**FIGURE 7 - INSERT PIGTAILS INTO PIGTAIL TUBE ASSEMBLY**

**5.08** Repeat Steps 5.05 through 5.07 for each group of pigtails.

## **6.00 FIBER SPLICING AND ROUTING**

**6.01** Route the Transport Tubes with the feeder cable fibers and the Pigtail Tube Assemblies within the Transition Assembly so that they will exit at the front left corner of the Transition Assembly. (Figure 8)

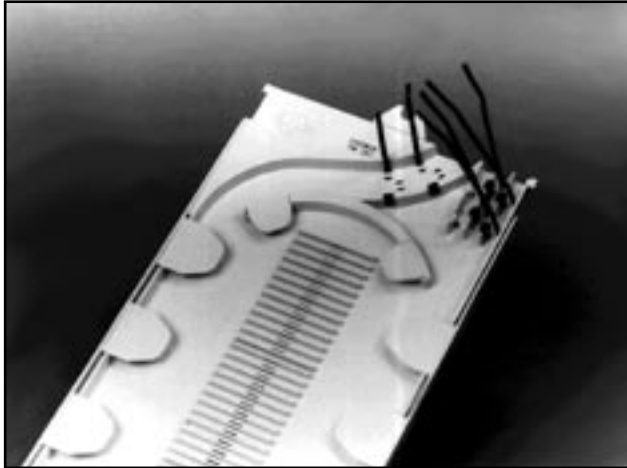


**FIGURE 8 - ROUTE TRANSPORT & PIGTAIL TUBES WITHIN TRANSITION ASSEMBLY**

**6.02** Use two tie wraps to gently secure the Pigtail Assembly Tubes to the back right side of the Transition Assembly as shown in Figure 8.

**6.03** Place a Splice Tray on the threaded studs over the Transition Assembly.

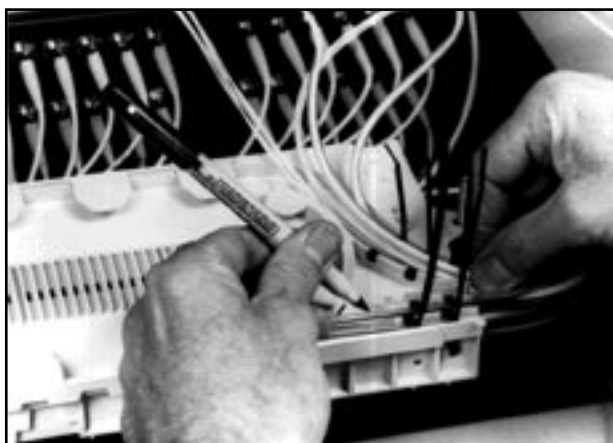
**PLP TIP:** Install the tie wraps into the Splice Tray tie down holes prior to installing the Splice Tray. (Figure 9)



**FIGURE 9 - INSTALL TIE WRAPS INTO SPLICE TRAY**

**6.04** Select four Pigtail Assembly Tubes (use three if working with the RDC3) and two Transport Tubes for installation onto the Splice Tray.

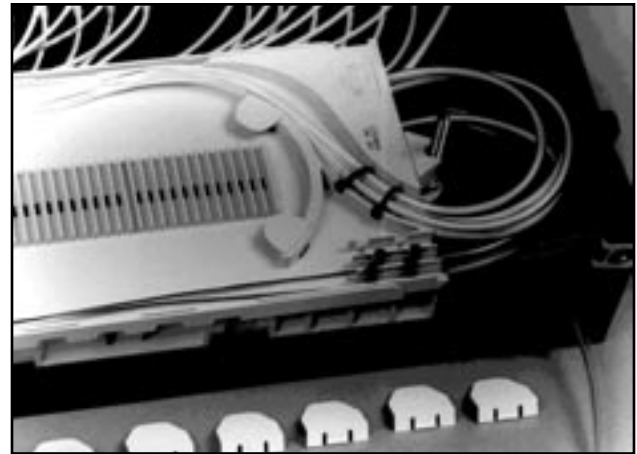
**6.05** Lay the Pigtail Assembly Tubes within the wide entry slot of the Splice Trays and the Transport Tubes within the first two narrow slots, and mark the tubes slightly beyond the tie down locations. (Figure 10)



**FIGURE 10 - MARK TUBES IN SPLICE TRAY**

**6.06** Carefully cut the tubes at the marks, and remove the excess length.

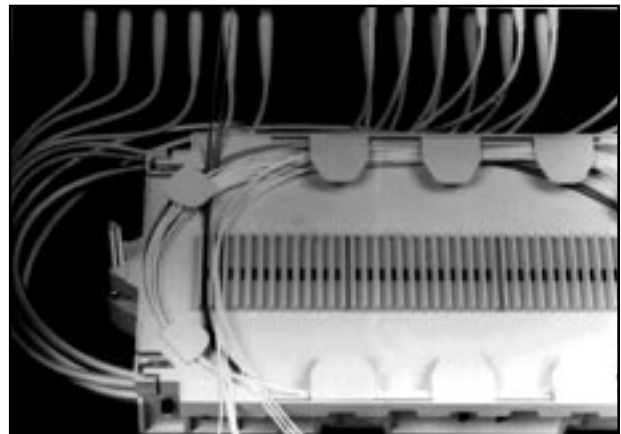
**6.07** Secure the Pigtail Tubes and Transport Tubes to the Splice Tray with the tie wraps. (Figure 11)



**FIGURE 11 - SECURE TUBES TO SPLICE TRAY**

**6.08** Route the Pigtail and Feeder Cable fibers one complete turn around the Splice Tray and into the splice groove furthest from the entry point of the tubes. (Figure 12)

**PLP TIP:** Temporarily remove the retaining tabs from the Splice Tray to ease fiber placement.

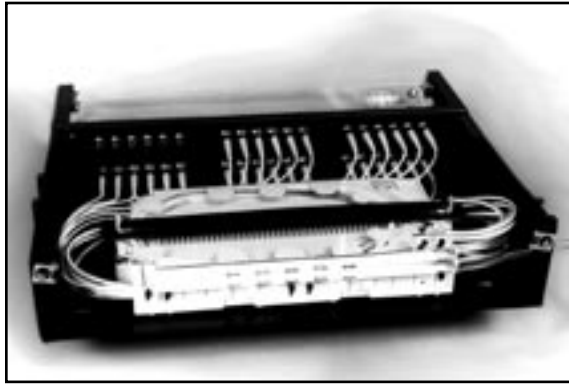


**FIGURE 12 - ROUTE FIBERS WITHIN SPLICE TRAY**

**6.09** Splice Feeder Cable fibers to Pigtail fibers per accepted company practices. Place each splice in a groove, starting from the furthest groove from the tube entry.

**6.10** Repeat Steps 6.03 through 6.09 for additional Splice Trays.

**6.11** Secure Splice Trays in place with Splice Tray Hold Down Strap. (Figure 13)



**FIGURE 13 - SECURE SPLICE TRAYS WITH SPLICE TRAY HOLD DOWN STRAP**

## 7.00 JUMPER ROUTING

**7.01** Clean the fiber connectors and attach the jumpers to the front side of the Adapter Modules.

**7.02** Gently bend the jumpers towards and through the grommet on either side of the cabinet.

**7.03** Lightly secure the jumpers to the tie down post with the tie wraps provided.

**7.04** Lightly secure the jumpers to the equipment rack with the tie wraps.

## 8.00 ACCESSORIES

**8.01** Table 1 details the Adapter Modules and Pigtail Assemblies available for the COYOTE Access Solutions Rack Mount Cabinets.

<b>Adapter Modules</b>			
<b>Catalog No.</b>	<b>Description</b>	<b>Adapters</b>	<b>Sleeve</b>
6SMSC	SC	6	Ceramic
6SCAPC	SC/APC	6	Ceramic
12SMDC	SC	12 (6 Duplex)	Ceramic
8SMSC	SC	8	Ceramic
6SMST	ST	6	Ceramic
8SMST	ST	8	Ceramic
6SMFC	FC	6	Ceramic
8SMFC	FC	8	Ceramic
6FCAPC	FC/APC	6	Ceramic
6SMLC	LC	6	Ceramic
12SMLC	LC	12	Ceramic
600	Blank Plate	-	-

<b>Pigtail Cable Assemblies - Bundled 900 Micron Fibers in Yellow Sleeve</b>		
<b>Catalog No.</b>	<b>Connector</b>	<b>Fiber Count</b>
P6SCU_*	SC/UPC	6
P12SCU_*	SC/UPC	12
P6SCA_*	SC/APC	6
P12SCA_*	SC/APC	12
P6ST_*	ST	6
P12ST_*	ST	12
P6FC_*	FC	6
P12FC_*	FC	12
P6LC_*	LC	6
P12LC_*	LC	12
*Cable length in meters Contact PLP for other options		

**TABLE 1**

## **9.00 SAFETY CONSIDERATIONS**

- 9.01** This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.
- 9.02** When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.
- 9.03** For proper performance and personal safety, be sure to select the proper size PREFORMED Product before application.
- 9.04** This product is intended for use by trained technicians only. This product **should not be used** by anyone who is not familiar with, and not trained to use it.

**PREFORMED** LINE PRODUCTS 

P.O. Box 91129, Cleveland, Ohio 44101 • 440.461.5200 • [www.preformed.com](http://www.preformed.com) • e-mail: [inquiries@preformed.com](mailto:inquiries@preformed.com)

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