INSTALLATION INSTRUCTIONS

GOAT FIBER PEDESTAL (GFP)

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INSTALLATION INSTRUCTIONS

CHANNELL

GOAT FIBER PEDESTAL INSTALLATION GUIDE

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GENERAL OVERVIEW

This installation guide is designed to provide a step-by-step procedure to successfully install Channell Commercial's GOAT fiber pedestal. Once this text has been read in its entirety, the installer should have knowledge of:

- Channel Commercial's GOAT Fiber Pedestal lineup.
- Basic GOAT Fiber Pedestal Features.
- The Proper End to End Installation of GOAT Fiber Pedestal.

1.0 GOAT LINEUP

Channell Commercial offers three sizes of GOAT fiber pedestals (GFP). This pedestal was developed with over 100 years of experience designing state of the art fiber enclosures to perform above and beyond in even the harshest of environments. This lineup of pedestals is offered in a variety of sizes to ensure maximum application flexibility in fiber-to-the-home (FTTH) networks. The different variants of the fiber pedestal can be seen pictured in figure 1.

Figure 1 : GOAT Fiber Pedestal Family. GFP08 left, GFP10 middle, GFP12 right.

1.1 GOAT FEATURES AND CAPACITY

These fiber pedestals are manufactured from next generation, industry leading thermoplastics. In order to meet and exceed the industry's ever-growing needs, therefore this material has been optimized for performance and durability.

Channell Commercials fiber pedestals have exceptional capacity and can offer:

- Up to 288 single-fiber splices.
- Optional SC/APC Bulkhead adapter.
- Provisioning for up to 16 drops.
- Up to 3 pre-installed splitters.
- Provisioning for up to 4 input cables.
- Provisioning for up to 2 mid-sheaths.
- Various locking options.
- Winterized drop plug for cold weather environments.
- Universal splice tray platform for splicing/patching
- Optional ground bar kit.

GOAT FAMILIARIZATION

It is important to become familiar with the geometry of this fiber pedestal for proper fitment and installation. There are multiple parts to this fiber pedestal, however, the most important components for installation purposes will be explored in this instruction. These components are:

-GOAT shell
- Self-locking mechanism

2.0 GOAT SHELL

These fiber pedestals are constructed of high strength thermoplastic and feature a deep rib design at their base. All bases are 12 inches in depth but vary in their length and width for each pedestal. These ribs are designed such that a stake is not required for proper installation. The ribs can be seen in figure 1. The shell of the fiber pedestal is comprised of two components, the base and the lid.

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At the base of each pedestal located 11 inches from the bottom, is an indicator line which represents the point to which the fiber pedestal should be buried. The line is labeled “ground line”. This line can be seen in figure 2.

Figure 2: The ground line, located just above the rib of the base.

2.1 SELF-LOCK MECHANISM

The locking mechanism is spring loaded design. The lock is located inside the lid. This lock can be accessed and unlocked using a 7/16 can wrench. Due to the interchangeability of the self-locking mechanism, a 7/16 can wrench might not always be suitable for opening a GOAT fiber pedestal. The self-locking mechanism and its access point has been pictured below in figure 3.

Figure 3: Location of self-locking mechanism on GOAT fiber pedestals is located on left side of pedestal unit.

2.2 APPLICATIONS

These fiber pedestals were designed and optimized for outdoor, underground, and outside plant applications. These pedestal units will also support the following applications:

- -Standard power passing tap.
- -Standard wide body tap.
- -Standard tap/splitter combo.

Figure 4 is an example of how a GOAT fiber pedestal might be configured. This particular pedestal is of the GFP12 variety and contains 144F main line, mainframe, fiber backplane, one splitter tray, and two splice/patch trays and a single drop.

Figure 4: Fiber configuration (left) and coaxial configuration (right).

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INSTALLATION PROCEDURE

Before installing the GOAT fiber pedestal it is important to note that final grade must be established before the installation process can begin.

3.0 SITE PREPARATION

The GOAT fiber pedestal is designed with large ribs located at its base as pictured earlier in figure 1. These ribs help to "grip" the soil around them which holds the fiber pedestal firmly in place.
To ensure the most secure installation it is important to establish final grade before beginning this procedure. Once this is complete, a square hole can be dug to accept the fiber pedestal. The hole must have larger dimensions than the pedestal that will be installed into it. A table has been provided that defines the recommended hole size based on the specific fiber pedestal being installed. It is also important that the soil is level at the base of the hole that is dug for the fiber pedestal. While digging the hole to accept the fiber pedestal, it is recommended that the hole be approximately 3 inches larger than the base of the pedestal being installed. The hole dug for this instruction is pictured in figure 5.

Figure 5: Hole dug to accept 8" fiber pedestal

Pedestal Size (Inches)	Hole Size (Inches)	Hole Depth (Inches)
8x8	11x11	11
10x10	13x13	11
12x12	15x15	11

Table 1: Recommended hole size and depth for each fiber pedestal

It is recommended to add a base layer of crushed rock or stones per local practice for added protection.

3.1 GOAT INSTALLATION

Once the whole has been made and the soil is level at the base of the hole, the GOAT fiber pedestal is ready to be installed. With the cover still on the pedestal, gently lower the unit into the hole as pictured in the following figure 6.

Figure 6: Lowering fiber pedestal into hole for installation.

Begin to fill in the empty space around the fiber pedestal with the removed soil. As you fill the empty space with soil, be sure to pack the soil at approximately every 2-1/2 to 3 inches.

CAUTION: Do not bury the fiber pedestal with the lid removed. Doing this might cause the base to flex unintentionally and cause the lid and base to come out of alignment which will cause issues while trying to open and close the pedestal for future technicians who come to splice or patch fiber.

3.2 GOAT FUNCTION CHECK

Once the fiber pedestal has been installed, it is important to ensure that it was installed correctly. The easiest way to complete this task is by ensuring that the lid to the fiber pedestal can be open and closed with ease. This can be accomplished using a 7/16 can wrench as stated earlier. Simply place the can wrench into the locking mechanism and turn clockwise or counterclockwise. Turning the locking mechanism will allow the spring loaded hook to move and create clearance for the lid to slide up and out of the way. This procedure is demonstrated in the following two figures. Figure 7 and 8.

Figure 7: Unlocking fiber pedestal.

Figure 8: While maintaining the unlocked position, lift the lid of the fiber pedestal.

Once it is confirmed that the lid can be removed and replaced with no issues of catching or jamming, replace the lid of the pedestal. An audible click will be heard when the pedestal lid is successfully seated to the base.

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