Pelco PB-5557 TB2N1 Transformer Base

DESIGN:

The aluminum transformer base is designed to accommodate a pole assembly. The base stands 17" tall and 14.88" wide at its base. Bolt on aluminum or plastic doors, as well as aluminum theft deterrent doors are available. Hinged doors are available upon request.

Application:

The transformer base will accommodate a variety of pole and single or double luminaire arm options.

Attachment:

See below chart for mounting diameters:

	Minimum Mounting Diameter	Maximum Mounting Diameter	Hardware Size
Top Bolt Circle	10 inches	13.5 inches	1″
Bottom Bolt Circle	10 inches	15 inches	1″

Internal Access

The transformer base has a removable door that allows approximately 9" x 11" user access opening for wiring. High voltage wiring could be present. Exercise caution when removing the door.

Hardware

Each base is supplied complete with hardware to install the door and a washer kit. The base is tapped ½"-13NC for a ground lug.

Figure 1

MATERIAL:

The base is cast from A356 aluminum and heat treated.
Hardware stainless steel alloys have a minimum yield strength of 30 KSI.
All castings are free from casting defects, blemishes, and excessive foundry grinding marks.

COMPLIANCY:

BABA compliant
Made in America

STATIC CAPACITY:

When properly installed at maximum bolt circle, the transformer base has a maximum design moment capacity of 47,000 ft. lbs.

FRANGIBILITY:

MASH 2016 is the latest FHWA standard for testing breakaway configurations. The purpose of the testing is to reduce crash severity by installing roadside assemblies that will perform in a certain way. The acceptance criteria are based on:

1. The test article should readily activate by breaking away
2. Detached elements or debris should not show potential for penetrating the occupant compartment
3. Vehicle should remain upright
4. Occupant impact velocity
5. Occupant ride down accelerations
6. Vehicle trajectory

Bullet one is the main criteria that is most heavily dependent on the properties of the base structure. All other criteria will depend on the mounted configuration and what is assembled onto the pole. MASH certifies an entire assembly, not individual components. Pelco has developed a frangible base that will support an assembly in MASH testing by "readily activating by breaking away". Pelco has diligently demonstrated the frangibility of the new TB2N1 base via pendulum testing. Additionally, the TB2N1 base with a 25' luminaire pole and 10' arm has successfully passed a MASH 2016 test as a baseline for a typical installation.

FINISH:

Powder coating is available per Pelco Specification 3099 Standard Powder Coat Finish.

OPTIONS: (may be specified)

1. Technical information and prints are available for application engineering on the intended use.
2. Material and test reports are available (if requested before manufactured).