

1.0 SCOPE

This specification covers polymer concrete underground enclosures for use as a hand hole in light duty applications with secondary cables and connections up to 600 V.

2.0 APPLICABLE PUBLICATIONS AND STANDARDS

The enclosure in this specification shall meet and/or exceed all requirements of the latest edition of ANSI/SCTE 77 – Specification for Underground Enclosure Integrity. The enclosure shall further meet and/or exceed those applicable standards not stated herein but referenced by ANSI/SCTE 77.

3.0 PRODUCT REQUIREMENTS

3.1. Strength

The enclosure shall be designed to carry Tier 15 loads as specified in ANSI/SCTE 77 and summarized in Table 1.

	Design Load	Test Load
Vertical	15,000 lbs.	22,500 lbs.
Lateral	800 lbs./sq. ft.	1,200 lbs./sq. ft.

Table 1: Minimum Load Requirements

3.2. Material

The enclosure shall be constructed of polymer concrete that is made from select-grade aggregates in combination with a polymer resin system. The precast polymer concrete shall be reinforced with fiberglass to give it additional strength and rigidity.

All material shall be UV resistant and unaffected by moisture, freezing, and surface and subsurface chemicals. All fastening hardware shall be stainless steel and shall not employ dissimilar metals that will lead to corrosion.

3.3. Size

The dimensions of the enclosure opening shall nominally 17" x 30". More detailed dimensions are shown in Section 4.0.

3.4. Weight

The weight of the enclosure cover shall not exceed 100 lbs. The weight of the enclosure box shall not exceed 140 lbs.

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3.5. **Color**

The underground enclosure and cover shall be concrete gray.

3.6. **Cover**

3.6.1. **Markings**

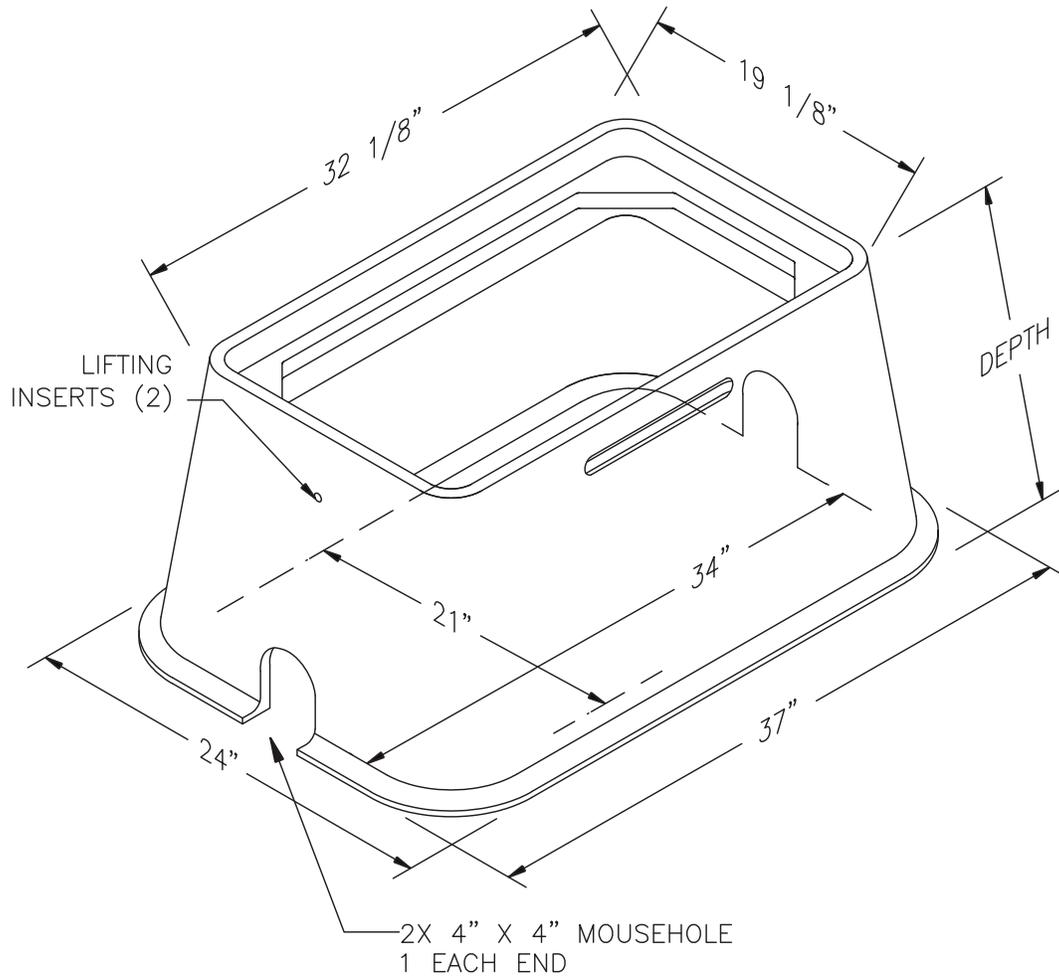
The enclosure cover shall be permanently stamped, embossed, or engraved with the word "POWER" in 2-inch lettering and the ANSI/SCTE 77 tier rating of the enclosure.

3.6.2. **Fasteners**

The cover shall be secured with two 7/8" stainless steel penta head bolts that are held captive to prevent the bolt from falling out of the cover when the cover is removed.

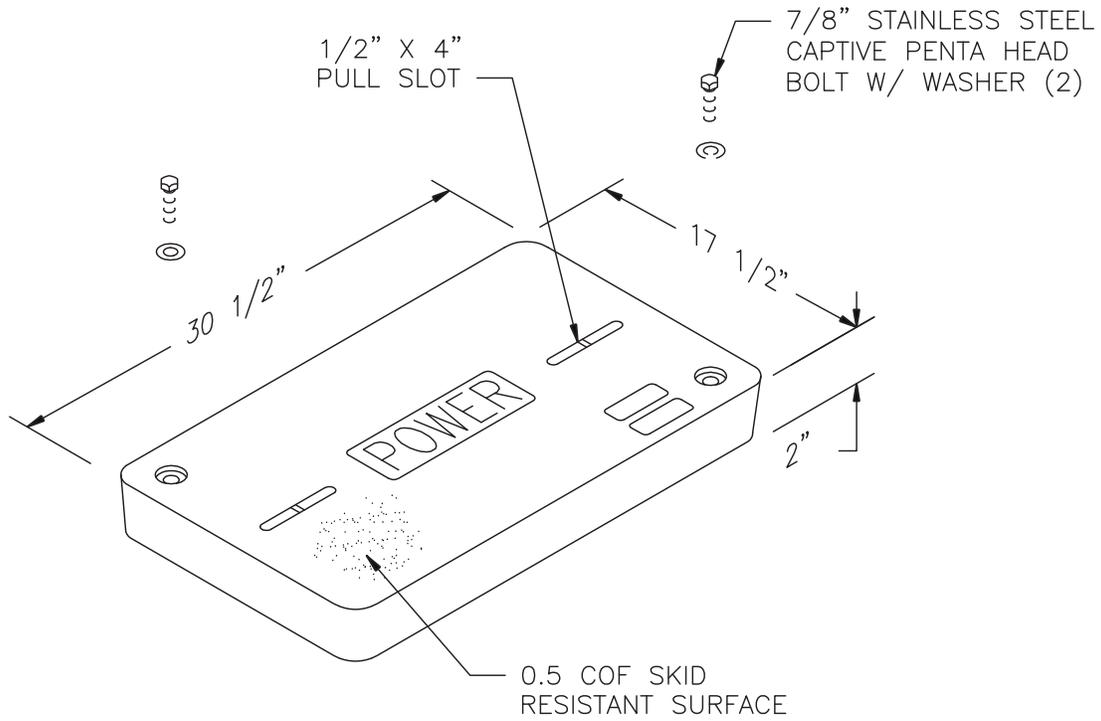
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4.0 DRAWINGS

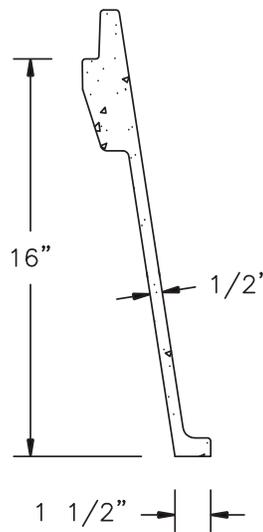


BOX

Specification



COVER



WALL