

JEA TECHNICAL SPECIFICATIONS

POLYMER CONCRETE SERVICE BOX

ITEM IDS: BOX SE 001, BOX SE 002, BOX PS 001 & BOX PS 002

1. APPLICABLE STANDARDS

All service boxes shall meet or exceed the following industry standards except where specifically noted:

ACI 548.7-04

ASTM C857

AASHTO Standard Specification for Highway Bridges, 15th Edition

Western Underground Committee Guide 3.6

American National Standard ANSI/SCTE 77 2002

2. DIMENSIONS

Physical size (exact Dimensions) per Western Underground Committee Guide 3.6:

ITEM ID	BOX DIMENSIONS	COVER DIMENSIONS (SEE EXHIBIT 1)
BOX SE 001	17" x 30" x 18" Deep	17.5"W x 30.5"L x 2" THICK
BOX PS 001	13" x 24" x 18" Deep	13.75"W x 23.25"L x 2" THICK
BOX SE 002	24" x 36" x 18" Deep	24.00"W x 35.625" L x 3" THICK
BOX PS 002	12" x 12" x 12" Deep	12.85"W x 12.85"L x .75" THICK

3. MATERIAL SPECIFICATIONS

3.1. Cover: polymer concrete or composite as approved by JEA Standards.

3.2. Body: Reinforced Plastic Mortar (RPM) consisting of Fiberglass and Isopholic Resin. The base will have a flange of two inches from the inside wall.

3.3. Ring: The ring will be of Polymer Concrete and will be permanently fused to the body during the curing process.

4. LOAD RATING

4.1. Load Rating: H-10 (Incidental Traffic) (Minimum Vertical Cover & Vertical Sidewall test load 22,561 lbs.) Failure is defined as the products inability to withstand an increase in load.

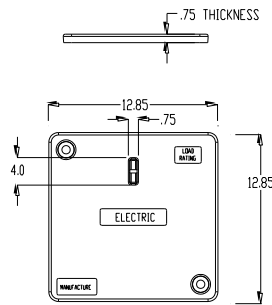
4.2. Test Certification: Load ratings will be in accordance with ASTM C857, AASHTO, ANSI 77/SCTE 77 2002 and Western Underground Committee Recommended Guidelines rule 3.6 dated 6-15-87. Manufacturer will submit test data which certify compliance. All tests are to be conducted on same test specimen.

4.3. Box floating nut shall withstand a minimum vertical pullout load of 1500 lbs, tested without the cover installed.

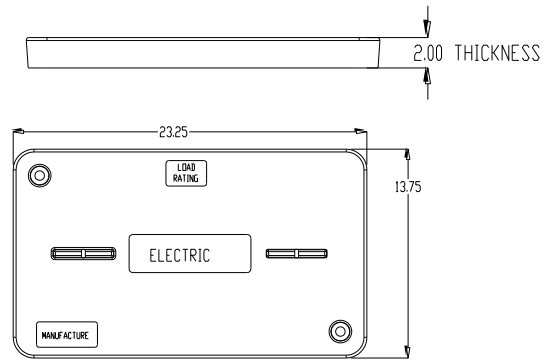
4.4. JEA will annually spot test items in stock supplied by the manufactures. The manufactures will be required to submit a replacement item (at no charge) that will be used to replace the item randomly pulled from stock.

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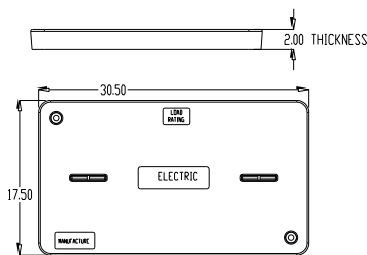
NOTE: Each manufactures covers shall be interchangeable with other manufactures.



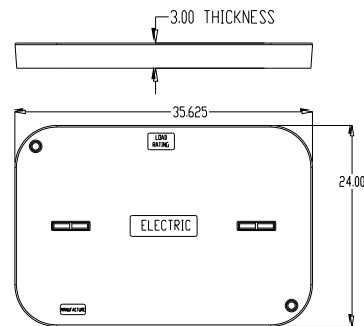
1212 DIMENSIONS
BOXPS002



1324 DIMENSIONS
BOXPS001



1730 DIMENSIONS
BOXSE001



2436 DIMENSIONS
BOXSE002

EXHIBIT 1

5. MISCELLANEOUS REQUIREMENTS

- 5.1. Cover shall have a "3M, APC EMS" electronic power marker molded or cast into the cover.
- 5.2. Hardware: Two captive stainless steel 1/2-13 NC steel penta head bolts will be supplied with top. Bolt heads will be flushed with top of cover. Nuts shall be stainless steel.
- 5.3. Identification: Each top will have the word "ELECTRIC" permanently marked into the top.
- 5.4. Cover pick holes shall be 4 inches in length, 3/4 inches wide and 1-3/4 inches depth. Stainless steel pull pin pull strength shall be 1500 lbs.
- 5.5. Load rating shall be marked on the Cover.
- 5.6. Box floating nut shall be field replaceable, without damaging or altering the original condition of the box. The nut must have a minimum float of 1/8" in all four directions.

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6. APPROVED MANUFACTURES

Prior to the JEA Purchasing Department posting an Invitation for Bid (IFB) or a Request for Proposal (RFP), only those manufacturers listed in the JEA Master Material Catalogs posted on JEA.com for each specific item shall be approved to bid or provide a proposal.

7. TEST DATA

Manufactures shall submit test data witnessed and certified (sealed) by a licensed professional engineer showing compliance with all the requirements of this specification. The information must be received and approved by JEA Standards prior to the manufacturer receiving a Bid Award or issuance of a Purchase Order.

8. APPROVAL DRAWINGS

Manufacturers shall be required to submit drawings that illustrate the design and dimensions for their products including, applicable tolerances, for each specific product prior to receiving final approval.