

## **Elutron®**

### Fuel Storage Tanks

Double-wall underground fuel storage tanks.

#### **Fuel storage tank:**

The Elutron® tanks furnished for this project were built to store fuel oil to power a standby generator system. The fittings within the containment sumps along the top of the tank should be inspected on a periodic basis to ensure that there are not any leaking pipe connections. Any leaks should be repaired immediately, as leaking fuel is a safety and environmental hazard.

#### **Containment System:**

The containment system of the tank is built to provide secondary containment of the primary tank volume. The tank should be monitored on a periodic basis for liquids that may enter as a result of a leaking primary tank or possibly from a leaking monitor pipe connection fitting. The liquid can be removed by the use of a properly rated suction pump and drop tube. Should this occur, the integrity of the primary and secondary tank should be confirmed per the testing procedure included in the installation instructions.

#### **Access:**

Access manways are provided. An access manway at the top of the tank provides access to the tank interior. **CAUTION SHOULD BE TAKEN WHEN ENTERING THE CONFINED SPACE OF THE FUEL TANK.** OSHA requirements for ventilation should be taken in ensure proper air availability and a safety harness should be used to assist in personnel removal should it be needed. Anyone entering the tank should be assisted and monitored by at least one other person on the exterior of the tank within a safe distance so as to provide quick assistance in the event of an accident. See OSHA requirements for more details.

#### **Vents:**

Each tank is furnished with numerous fittings, one of which should be used as a tank vent. Periodic inspection of the vent should be performed to insure that it is working properly. The standard vent located on a pipe extending into the air is the operating vent allowing the tank to breathe during discharge and filling.

#### **Warranty:**

See attached warranty for details.

## GENERAL

- A. Tanks shall be equipped with openings, fittings, and accessories, as specified hereinafter and/or indicated on the drawings.
- B. Tanks shall have capacities indicated on the drawings.
- C. Fuel oil and gasoline tanks shall be manufactured and installed in accordance with NFPA 30, 30A and 31.

## TANKS

- A. Construction:  
Tanks shall be double wall type. The Primary vessel shall be a steel underground storage tank built in accordance with the requirements of Underwriters Laboratories and tested and labeled accordingly. The Secondary containment shall be constructed using a foil wrap around the primary vessel, which shall be coated with a 100 mils thick fiberglass reinforced plastic resin mixture. See attached drawing for tank sizes and details.

- B. Integrity Testing:  
The Primary Vessel shall be tested at the factory with a 5 psi. pressure and soap test to test its integrity. If required, a 5 psi air pressure test may be performed after installation, before back-filling. The Secondary Containment Vessel shall be vacuum tested to 10" Hg. The tank shall be shipped and back-filled to the top of the tank with the vacuum. After installation, before back-filling to grade, an air pressure test may performed no greater than 2 psi.

Construct so as to pass the UL 58 and UL 1746 anti-buckling test. (Tank shall withstand submerging in 5' of water with no backfill for support).

- C. Product Compatibility:  
Both the primary storage vessel and the secondary containment vessel shall be compatible with gasoline, gasohol, 100% ethanol, methanol, jet fuel, av-gas, kerosene, diesel fuel, motor oil at ambient underground temperatures, or used for fuel oil not to exceed 150° F.
- D. Interstitial Fluid Migration:  
There shall be an interstitial space between the primary storage vessel and secondary containment vessel created by the foil wrap, which shall allow 100% fluid migration, under maximum loads, between walls.
- E. Corrosion Protection:  
The primary storage vessel (steel) shall provide striker plates under each fitting. The secondary containment vessel shall totally isolate the primary storage vessel from stray electrical currents as well as the environment. The tanks outer wall shall be "holiday" tested at the factory using a Tinker and Razor meter to check the wall thickness. As an additional feature, the interstitial space of the tank shall be equipped with an anodic

material to protect the inner tank vessel from potential corrosion should water moisture enter the interstice.

F. **Monitoring Access:**

The secondary containment vessel shall provide a monitoring access fitting for insertion of a continuous monitoring probe. This fitting shall be located along the top center-line of tank. The fitting shall connect to a tube extending to the bottom centerline of the tank. The tank shall have a hole through the wall of the tank in the center of the monitoring tube. This shall allow for the migration of liquid from a leak in either the primary or secondary tank to result in a detectable liquid level in the monitoring tube.

G. **Tank fittings shall be steel half-couplings with NPT threads and double-tapped reducer bushing to match pipe size. Tank fittings shall be shipped with cast iron plugs. As per its UL 1746 listing, the tank will not require nylon dielectric bushings.**

H. **Hold-Down Straps shall be supplied as specified to the manufacturer's recommendations.**

I. **Installation:**

Tanks shall be installed per suggested manufacturer's installation instructions.  
Tanks shall be: Elutron®.

# PLASTEEL® ELUTRON® Double-Wall INSTALLATION INSTRUCTIONS Tank

## I. GENERAL

The **PLASTEEL® ELUTRON®** underground tank is a U.L. Listed Jacketed tank providing corrosion protection and 360° secondary containment per U.L. 1746 and 58.

**ELUTRON®** underground tanks must be installed according to these installation instructions, the latest issue of the Flammable and Combustible Liquids Code, N.F.P.A. 30 for underground tanks and the Authority Having Jurisdiction (AHJ).

The installer and/or owner must read and be familiar with the entire installation instructions and Appendix A prior to installing the **ELUTRON®** tank. To activate the **PLASTEEL® ELUTRON®** Tank Warranty, a completed and signed Certificate of Installation for the **PLASTEEL® ELUTRON®** Underground Tank must be returned to the manufacturer. For additional installation references, consult the current editions of:

- Petroleum Equipment Institute, RP-100
- American Petroleum Institute, RP-1615.

If tank will be stored above ground more than 30 days, consult the manufacturer for procedures.

Products stored in the **ELUTRON®** tank must not exceed 150° (66° C). The **ELUTRON®** tank shall be maintained per API RP 1621, Appendix D.

## II. VISUAL INSPECTION

Prior to setting tank in hole, inspect exterior for damage. If tank exterior is damaged, call factory regarding correct repair procedures. Exterior damage is indicated when the blue color of the FRP laminate has shown a white fractured pattern.

## III. HANDLING

Good construction engineering practice, common sense and safety must prevail during this phase. **ELUTRON®** tanks are not to be dropped or rolled off of the delivery vehicle onto the ground or into the hole. The lifting hook or hooks provided must be used in combination with the proper capacity unloading equipment. It is the responsibility of the owner to provide the qualified personnel and safe, proper unloading equipment, with specific consideration given to tank weight and reach distance to set tank in excavation. The preferred lifting cable included angle is 60° and must never exceed 120°. A spreader bar may be used to achieve this angle.

## IV. EXCAVATION DEPTH, BEDDING AND BACKFILL

Follow all applicable local regulations and codes. When excavating, allow a minimum clearance of 6" for backfill around the tank. For minimum burial cover, consult N.F.P.A. 30. If burial cover over top of tank exceeds five (5) feet, consult factory. Backfill materials should be clean, debris free, sand or pea gravel. Hydrocarbon exposed sand or pea gravel may be re-used if approved by the AHJ. Native sand may be used if approved by the tank manufacturer and the AHJ. Allow a minimum of 12" of backfill between traffic slab and all appurtenances that are attached to the tank. Damage to tank may occur if surface traffic loads are transmitted directly to tank.

## V. ANCHORING SYSTEMS

**CAUTION:** The decision to use an anchoring system is the responsibility of the owner. Damage to the tank may occur if the tank is subjected to movement.

Consult the factory for number, size and type of holddown assemblies required when using a concrete pad under the tank. You

may set and securely anchor the **ELUTRON®** tank on the pad with a minimum of 6" of backfill between tank bottom centerline and the pad. Upon AHJ approval, you may set and securely anchor the **ELUTRON®** tank directly on the smooth, flat pad taking care to place a 12" wide x 1" thick piece of felt between the entire tank bottom centerline and the pad to minimize damage during placement. Consult factory for other anchoring techniques.

## VI. TESTING

**PRE-INSTALLATION:** Aboveground, prior to replacement of tank in excavation, precisely follow one of the three testing options cited in Appendix A attached. Do not deviate from these procedures. If the **ELUTRON®** tank is delivered with a vacuum on the interstice, refer to Option #2 of Appendix A.

**CAUTION:** IF OPTION #3 IS USED, DO NOT APPLY ANY PRESSURE TO THE INTERSTICE BEFORE THOROUGHLY UNDERSTANDING AND FAITHFULLY FOLLOWING THE PROCEDURES CITED IN OPTION #3 OF APPENDIX A. DAMAGE TO TANK MAY OCCUR IF YOU DEVIATE FROM THE PROCEDURES AND SPECIFICATIONS.

**POST-INSTALLATION:** Complete the backfill procedures to the top of the tank. Complete all piping and connections ensuring that unused openings are secured tight with threaded steel plugs. Apply a 5 PSIG pressure test in the primary tank and check for tightness of piping connections and tank manhole covers. Gauge should be checked prior to testing for accuracy and have a maximum limit of 15 PSIG.

**CAUTION:** THE PRIMARY TANK TEST PRESSURE SHALL NOT EXCEED 5 PSIG. DAMAGE TO TANK MAY OCCUR. ISOLATE PIPING FROM TANK BEFORE TESTING THE PIPING AT HIGHER PRESSURES.

The interstice (annular space) will be tested using option #2 or #3 in Appendix A.

**OPTION:** Request Appendix B for procedures to perform the Interstitial Vacuum Test that has been third party evaluated to meet the EPA tank tightness test protocol.

## VII. VENTING

The primary tank must be vented to atmospheric pressure except for use with a vapor recovery system, provided the pressure or vacuum does not exceed 1 psi (6.9 kpa). Compliance is required for underground tank venting in N.F.P.A. 30. The interstitial space does not require venting. It is recommended that the interstice be sealed air tight.

**CAUTION:** DO NOT MANIFOLD VENT FROM PRIMARY TANK TO VENT FROM INTERSTITIAL SPACE.

## VIII. PLASTEEL® SEALING PROCEDURES

These procedures must be performed prior to completion of backfill and AFTER TESTING. To ensure complete corrosion protection, the following instructions must be followed:

### a. General instructions for working with fiberglass resin

By carefully performing the following steps, your **ELUTRON®** tank will be fully protected from corrosion. The kit includes materials

for covering and protecting the unused tank connections, tank handling hooks, and each of the pipe connections on top of the tank. The **PLASTEEL®** kit contains hazardous materials. Read the enclosed material safety data sheets before proceeding to work with **PLASTEEL®** kit materials. The standard kit includes the following materials and tools:

BOX A	
4 each 1 Qt. bottles <b>PLASTEEL®</b> resin	

BOX B	
1 each 1 Qt. bottle	Resin emulsifier or Acetone
4 each 1 Oz. bottles	Catalyst
6 each	Star Mats
10 each	Mat strips
6 each	Plug mats
1 - 3 each	4" Flat pipe plugs
2 each	Paint stirring sticks
2 each	1-1/2" Paint brushes
3 each	Mixing cups
1 each Sheet	60 grit sandpaper
4 each	Hook Mats

Additional material is supplied when tank configured with containment collars, special fittings, manholes or extension spools.

**b. Preparation**

Do not mix the catalyst with the resin until all the pieces you wish to impregnate have been fitted in place and the 1" strips of matting are laid out next to their corresponding pipe connections. Once the resin and catalyst are mixed, a chemical reaction begins that cannot be reversed. Working time for a mixed batch is about 30 minutes at 70° F. Higher temperatures make it set up more quickly, shortening working time. For example, at 100° F. you will have approximately 15 minutes of working time. The key things to remember are: (1) Be prepared and have all parts prefitted and in place before mixing the resin. (2) Mix only as much resin as you can use in 30 minutes and mix it thoroughly—stir for at least 1 minute. (3) Work quickly and efficiently. Lower temperatures increase resin set-up time and require additional catalyst.

**c. Mixing the catalyst**

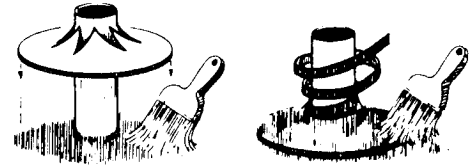
Resin and catalyst must be mixed in the proper proportions so that the resin will harden properly. Below is a list of some various size batches you could mix.

RESIN	CATALYST
1 qt. ....	.1/2 oz.
1 pint ....	.1/4 oz.
1 cup ....	.1/8 oz.

If you're not sure how fast it will set up, it is better to mix several small batches rather than one big one.

**d. Application**

Using the paint brush provided, DAB the resin mixture into the cloth rather than painting it on. You are trying to completely soak the matting with resin, not just cover it.

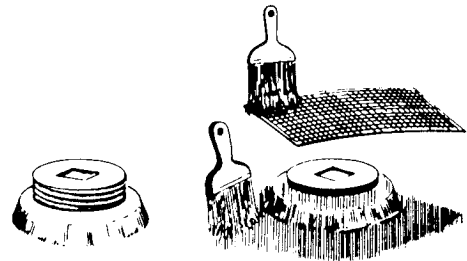


**e. Pipe and Risers**

For standard threaded fittings: Apply resin to the base of the pipe and top of tank and push down the matting circle as shown. Impregnate with resin.

Impregnate the strips of matting and wrap like tape around the joint at the base and working upward. Apply any leftover resin to the outside of the joints when done wrapping.

For special bolt-up flanges: Apply generous coating of resin to exposed metal edges of flange and wrap with resin impregnated matting strips. Apply leftover resin to nuts and bolts.



**f. Steel Plugs**

After fitting fiberglass matting, lift it up and apply mixed resin to the top of the tank surface where the matting will contact. Stick matting over plug into wet resin and totally impregnate matting with resin, dabbing in with paint brush as described above.

**g. Manhole, Extension Spool and Handling Hooks**

Apply generous coating of resin impregnated matting strips to exposed metal edges and to handling hooks (matting precut). Apply leftover resin to nuts and bolts except on access cover.

**h. Cleanup**

Hands and tools may be cleaned with resin emulsifier before the resin has hardened. No solvent will work once the resin has hardened.

**NOTE:**

The **ELUTRON®** tank installation is not complete until all exposed steel surfaces on tank are sealed with the **PLASTEEL®** fiberglass resin.

For additional assistance or information, call your **PLASTEEL® ELUTRON®** tank factory below:

**Licensed PLASTEEL® ELUTRON® tank manufacturers**

DPE Klang Selangor, Malaysia	ERMETRA INDUSTRIA Betim, Brazil	INDUSTRIAS CORREAGUA Panama, Panama	INSTALL RZESZOW Rzeszow, Poland	HALL TANK CO. N. Little Rock, AR (501) 945-3211 Fax (501) 945-4477	K & T STEEL Twin Falls, ID (208) 733-2554 Fax (208) 733-7239	METAL PRODUCTS Suwanee, GA (770) 945-8383 Fax (770) 932-5671	METALURGICA RIMA Guaira, Brazil	TANX INC. Claremont, NH (603) 543-1272 Fax (603) 543-1270	TALLER EL RETOÑO C.A. Barquisimeto, Venezuela
DTE Perth, Australia	INDUSTRIA ACERO Quito, Ecuador	INMSA ARGO San Pedro Sula, Honduras					TANQUES GUMEX Torreon, Mexico		TECNOECO CHILE Santiago, Chile

# PLASTEEL® ELUTRON® Double-Wall Tank

## APPENDIX A

### INSTALLATION SITE TESTING PROCEDURES

#### Option #1: EXTERIOR HOLIDAY TEST

Prior to arrival of the Elutron® tank at the installation site, coordinate with the Elutron® manufacturer to have a 12,500 volt holiday test performed using a Tinker-Razor, Model APW, tester. Any pinholes detected must be repaired using the Plasteel® sealing kit materials. Re-test and repair until tank is pinhole free. This test must be performed by a person qualified by the Elutron® tank manufacturer.

#### Option #2: VACUUM TEST INTERSTICE

The Elutron® tank may be delivered with an interstitial vacuum established at the factory. The delivery document will state the vacuum gauge reading required for acceptance at the delivery location. Record the vacuum gauge reading on the delivery document when the tank is delivered. If the vacuum gauge has decreased from the vacuum gauge reading listed for acceptance on the delivery document, call the factory for further instructions. If an interstitial vacuum is to be established at the installation, follow the instructions in Appendix B, Interstitial Vacuum Test. **DO NOT** apply a vacuum to the primary tank, **DAMAGE MAY OCCUR.**

#### Option #3: PRESSURE TEST INTERSTICE

If a field pressure test is required, set-up test equipment per the schematic diagram and precisely follow the test procedures listed.

**CAUTION: DAMAGE TO TANK MAY OCCUR IF PRESSURE IN THE INTERSTICE EXCEEDS 2 PSIG ABOVEGROUND.**

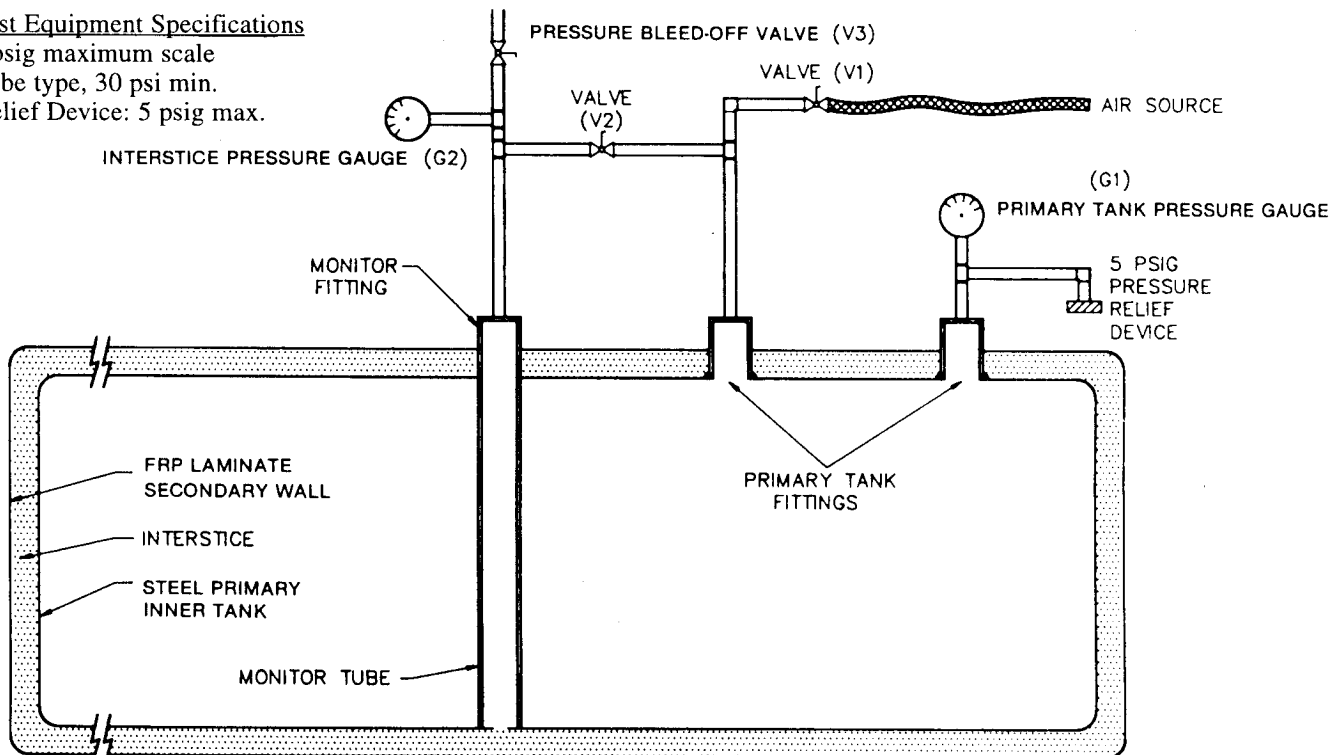
- |   |  |
|---|--|
| <p>Step 1. Ensure gauges are accurately calibrated.</p> <p>2. Ensure all connections are leak tight.</p> <p>3. Close V2, open V3, G2 should read zero.</p> <p>4. Open V1, pressurize primary tank until G1 reads 3-5 psig, close V1. Disconnect air source.</p> <p>5. Close V3, after 30 minutes, check G2. G2 should read zero. (Call factory if G2 does not read zero.)</p> <p>6. Open V1 and decrease G1 to 1 1/2 - 2 psig. Close V1.</p> <p>7. Open V2, pressurize G2 to 1 1/2 - 2 psig. Close V2. <b>DO NOT EXCEED 2 PSIG ON G2. DAMAGE TO TANK MAY OCCUR.</b></p> | <p>8. Observe G2 for 30 minutes. G2 should remain at 1 1/2 - 2 psig. (Call factory if G2 decreases to zero.)</p> <p>9. Open V3, vent interstice, G2 to read zero.</p> <p>10. Open V1, vent primary tank, G1 to read zero. Test complete.</p> <p><b>NOTE:</b> If the Elutron® tank is covered with backfill, you may test the interstice at 3-5 PSIG, following steps #1-10, and carefully increasing the pressure in step #7 to 3-5 PSIG. In step #8, G2 should remain at 3-5 PSIG.</p> <p><b>CAUTION: DAMAGE MAY OCCUR IF INTERSTICE PRESSURE EXCEEDS 5 PSIG. WHEN TANK IS COVERED WITH BACKFILL.</b></p> |
|---|--|

#### Pressure Test Equipment Specifications

Gauges: 5 psig maximum scale

Valves: Globe type, 30 psi min.

Pressure Relief Device: 5 psig max.



#### Licensed PLASTEEL® ELUTRON® tank manufacturers

DPE Klang Selangor, Malaysia	ERMETRA INDUSTRIA Betim, Brazil	INDUSTRIAS CORREAGUA Panama, Panama	INSTALL RZESZOW Rzeszow, Poland	HALL TANK CO. N. Little Rock, AR (501) 945-3211 Fax (501) 945-4477	K & T STEEL Twin Falls, ID (208) 733-2554 Fax (208) 733-7239	METAL PRODUCTS Suwanee, GA (770) 945-8383 Fax (770) 932-5671	METALURGICA RIMA Guaira, Brazil	TANX INC. Claremont, NH (603) 543-1272 Fax (603) 543-1270	TALLER EL RETOÑO C.A. Barquisimeto, Venezuela
DTE Perth, Australia	INDUSTRIA ACERO Quito, Ecuador	INMSA ARGO San Pedro Sula, Honduras					TANQUES GUMEX Torreon, Mexico		TECNOECO CHILE Santiago, Chile

# PLASTEEL® UNDERGROUND TANK

## APPENDIX B

### INTERSTITIAL VACUUM TEST (IVT)

**1.0 Introduction:** This test method has been developed by PLASTEEL INC. to meet the E.P.A. Alternate (Non-Volumetric) Tank Tightness test procedures. The IVT has been verified by a third party to be capable of detecting a 0.1 gal/hr leak rate with a probability of detection of 100% when all of the testing criteria are met. The false alarm rate for a tight tank is less than 5%. It is impossible to maintain a steady vacuum if a leak is present. This test is not necessary to attain the PLASTEEL® tank warranty. This test is offered as a stand alone leak tightness test method.

**2.0 Application:** The IVT is applicable to the PLASTEEL® ELUTRON® (jacketed) Double-wall tank and the PLASTEEL® Composit Double-wall tank. For compartmented tanks, consult the factory for the test time.

**3.0 Authority:** The Jurisdiction Having Authority (JHA) will determine whether the double-wall UST must be subject to a leak tightness test before placing the UST in service.

**4.0 Pre-Delivery Procedure:**

- 4.1 Read and understand the PLASTEEL® Tank Installation instructions and Appendix B before attempting the interstitial vacuum test. Contact the PLASTEEL® tank manufacturer if you have any questions.
- 4.2 Consult the PLASTEEL® tank manufacturer before the tank is shipped to ensure that the tank is delivered with the test gauge assembly. This assembly is an optional piece of equipment supplied by the tank manufacturer.
- 4.3 Prior to shipment from the factory, you may request that the manufacturer deliver the tank with the vacuum established.
- 4.4 Upon delivery, the delivery document will indicate the correct vacuum gauge reading. Call the factory if the gauge reading does not meet the gauge reading specified on the delivery document.
- 4.5 To maintain the vacuum during the unloading and installation phases, extreme care must be taken to ensure the IVT gauge assembly is not jarred, struck or moved in any manner. Call the factory for instructions if the vacuum has decreased.

**5.0 Test Procedures:**

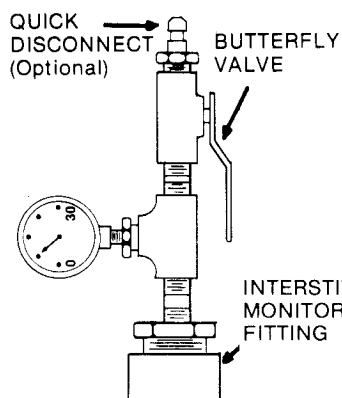


FIGURE 5.0: VACUUM GAUGE TEST ASSEMBLY (TYPICAL). ACCURACY: ASME (ANSI) GRADE B, ± 2%, 0-30" Hg, with 1" Hg GRADUATIONS.

- 5.1 If the vacuum was established at delivery and has not decreased during the unloading and installation phases, you may by-pass 5.2 and 5.3
- 5.2 Install the vacuum gauge test assembly (see Fig. 5.0) in the monitor access NPT coupling on the tank top centerline. Ensure that any additional monitor access couplings are properly sealed with threaded plugs.
- 5.3 Connect the vacuum pump to the test gauge assembly and draw down to 10" hg. Record initial gauge reading, date, and time of day in Part IV of the Certificate. The initial pump

down on the ELUTRON® jacketed tank may require reiteration due to the slow nature of air movement in the interstitial space.

- 5.4 To ensure a vacuum has been established, the gauge must read 10" hg. for three (3) hours without any decrease on the gauge before proceeding with 5.6. Contact the factory if the vacuum cannot be established per this paragraph.
- 5.5 Complete sections II and III of the Certificate of Tightness Test.
- 5.6 Refer to the Test Time Table (Figure 6.0) to determine the correct minimum time period for a valid test. Begin timing the test after completing 5.4. Record the nominal tank capacity, primary tank product and required test hours in Part IV of the Certificate.
- 5.7 After the required test time has passed, observe the gauge reading and record the reading, date and time of day in Part IV of the Certificate.
- 5.8 Test Conclusions: The tank has passed the leak tightness test when the final gauge reading has not decreased from the initial gauge reading of 10" Hg. If other observations are made, consult the tank manufacturer.

**Test Time Tables:** The table in Figure 6.0 lists the minimum test period (in hours) to perform a valid IVT with a dry (air only) primary tank. The IVT test may be performed with gasoline, diesel or water in the primary tank. Consult the PLASTEEL® tank manufacturer for the specific test time for these situations.

TEST TIME TABLE: DRY PRIMARY TANK		
CAPACITY (GALS.)	JACKETED (HOURS)	COMPOSIT (HOURS)
500	4.0	4.5
1,000	4.0	5.5
2,000	4.0	8.0
3,000	4.0	9.0
4,000	4.0	9.5
5,000	4.0	10.5
6,000	4.0	11.0
8,000	4.0	13.0
10,000	4.0	14.5
12,000	4.0	15.5
15,000	4.0	17.5
20,000	4.0	20.5
30,000	4.0	37.5
40,000	4.0	45.5
50,000	4.0	53.0

FIGURE 6.0

- |  |                                   |   |   |   |   |  |                                   |                                  |   |
|--|-----------------------------------|---|---|---|---|--|-----------------------------------|----------------------------------|---|
| INSTALL RZESZOW<br>Rzeszow, Poland     | INDUSTRIA ACERO<br>Quito, Ecuador | HALL TANK CO.<br>N. Little Rock, AR<br>(501) 945-3211 | JJOOR MFG.<br>Escondido, CA<br>(760) 745-0971 | K & T STEEL<br>Twin Falls, ID<br>(208) 733-2554 | METAL PRODUCTS<br>Suwanee, GA<br>(770) 945-8383 | TANX INC.<br>Claremont, NH<br>(603) 543-1272 | SHINWON INDUSTRY<br>Seoul, Korea  | TANQUES GUMEX<br>Torreon, Mexico | TECNOECO ARGENTINA<br>Buenos Aires, Argentina |
| INDUSTRIAS CORREAUGA<br>Panama, Panama | JAPAN STEEL WORKS<br>Tokyo, Japan | Fax (501) 945-4477                                    | Fax (760) 746-9515                            | Fax (208) 733-7239                              | Fax (770) 932-5671                              | Fax (603) 543-1270                           | TECNOECO CHILE<br>Santiago, Chile | TVG<br>Tab, Hungary              | METALURGICA RIMA<br>Guaira, Brazil            |

# CERTIFICATE OF INSTALLATION

FOR THE

## PLASTEEL® ELUTRON® UNDERGROUND TANK

In compliance with part 280 of Title 40 of the Code of Federal Regulations, this document may be implemented to meet Subpart B, paragraph 280.2 (e), CERTIFICATION OF INSTALLATION.

The tank owner or owner's installer must initial all sections below representing that the installer has read, was cognizant of and has completed, as applicable, all sections of the **PLASTEEL® ELUTRON®** Tank Installation Instructions attached hereto.

Return completed and signed certificate to the manufacturer within 60 days of the installation completion date to activate warranty.

### **INSTALLATION CHECK-OFF COMPLETION LIST**

SECTION	INITIAL	DATE
I. GENERAL	_____	_____
II. VISUAL INSPECTION	_____	_____
III. HANDLING	_____	_____
IV. EXCAVATION DEPTH, BEDDING AND BACKFILL	_____	_____
V. ANCHORING SYSTEMS	_____	_____
VI. TESTING	_____	_____
VII. VENTING: JACKETED	_____	_____
VIII. PLASTEEL® SEALING PROCEDURES	_____	_____

### **INSTALLATION DESCRIPTION**

#### **INSTALLATION SITE**

ADDRESS \_\_\_\_\_  
CITY, STATE, ZIP \_\_\_\_\_

#### **PLASTEEL® TANK OWNER**

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE, ZIP \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

### **ELUTRON® TANK DATA**

The U.L. Label and serial number is on the top centerline of the tank and also listed on the delivery document.

SIZE IN GALLONS \_\_\_\_\_ U.L. SERIAL NUMBER \_\_\_\_\_

TANK INSTALLATION COMPLETION DATE \_\_\_\_\_

### **INSTALLATION COMPANY**

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE, ZIP \_\_\_\_\_  
( ) \_\_\_\_\_  
TELEPHONE \_\_\_\_\_

### **INSTALLATION COMPLETION/SUPERVISOR'S SIGNATURE**

The responsible supervisor's signature below represents that phases I through VIII were properly completed per the PLASTEEL® ELUTRON® Installation Instructions:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PRINT NAME \_\_\_\_\_

#### **YOUR PLASTEEL® TANK MANUFACTURER IS:**

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE, ZIP \_\_\_\_\_  
( ) \_\_\_\_\_  
TELEPHONE \_\_\_\_\_

RETURN COMPLETED FORM TO MANUFACTURER TO ACTIVATE WARRANTY



# CERTIFICATE OF COMPLETION

## Interstitial Vacuum Test (IVT)

### For The PLASTEEL® Double-Wall Underground Tank

**I. Third Party Evaluation:** This leak tightness test method has been third party evaluated per the Alternate EPA Test Protocols for Plasteel International. The third party environmental consulting firm that performed the evaluation was:

Ken Wilcox Associates, Inc.  
19401 E. 40 Highway, Suite 100  
Independence, MO 64055  
(816) 795-7997

A copy of the evaluation is on file at each licensed PLASTEEL® tank manufacturer and at:

Plasteel International Inc.  
2541 State Street  
Carlsbad, CA 92008  
(760) 729-1093

**II. Tank Description:**

Capacity: \_\_\_\_\_ Gallons

Jacketed: \_\_\_\_\_

Composite: \_\_\_\_\_

Compartmented: Yes \_\_\_\_\_ No \_\_\_\_\_

U.L. Number \_\_\_\_\_

Tank Manufacturer:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

**III. Installation Information:**

Tank Owner:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Installation Location:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**IV. Test Results:** The interstitial vacuum test was performed per Appendix B. The following data was recorded:

Nominal Tank Capacity: \_\_\_\_\_  
(Gallons)

Primary Tank Product: \_\_\_\_\_  
(air, gasoline, diesel, water)

Required Test Period: \_\_\_\_\_  
(Hours, per Appendix B, Figure 6.0)

Initial Gauge Reading: \_\_\_\_\_ inches Hg.  
Date \_\_\_\_\_ Time \_\_\_\_\_ am/pm

Final Gauge Reading: \_\_\_\_\_ inches Hg.  
Date \_\_\_\_\_ Time \_\_\_\_\_ am/pm

Total Elapsed Time Period: \_\_\_\_\_  
(Hours)

Pass \_\_\_\_\_ Fail \_\_\_\_\_ (Initial)

**V. Statement of Test:** I certify that the PLASTEEL® Double-Wall tank described above has been tested leak tight per Appendix B of the PLASTEEL® Tank Installation Instructions.

Testing Company:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_