

Tank Sump INSTALLATION INSTRUCTIONS

Please read all instructions completely prior to installation. These instructions do not supersede local laws and regulations. Always comply with local requirements.

PRE-BONDING SURFACE PREPARATION:

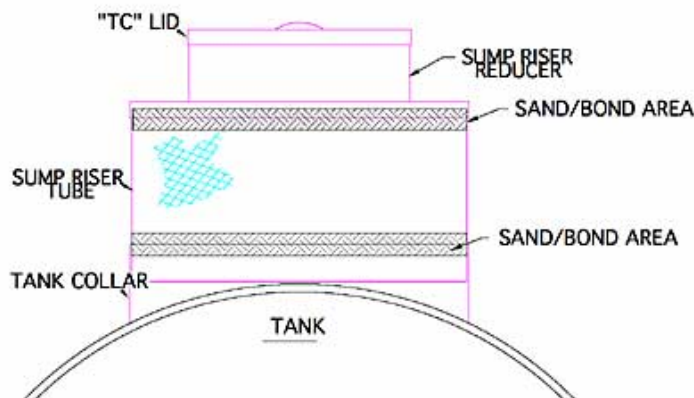
BE SURE TO WEAR A DUST MASK! After positioning sumps onto tank collar or after placing reducer on sump riser tube, use disc sander, with medium to heavy grit sand paper, to scuff up all seam areas a minimum of 4" each side of the point where the components join. It is very important that this be done fully, as the bonding materials will not adhere to any surface that has not been sanded. Brush sanding dust from seam areas.

SEAM LAMINATIONS:

CAUTION: Always wear gloves when handling fiberglass bonding materials!

Use one plastic bucket with acetone to clean roller, brushes and squeegee. Return tools to this bucket between use to prevent bonding materials from drying on them. BE SURE TO SHAKE THE ACETONE OUT OF TOOLS BEFORE RE-USE!

Lay out fiberglass materials at each seam to be bonded. (2 x 1.5oz FRP matt for collar attachment. 2 x 1.5oz and 1 x 18oz woven roving material for direct attachment.)





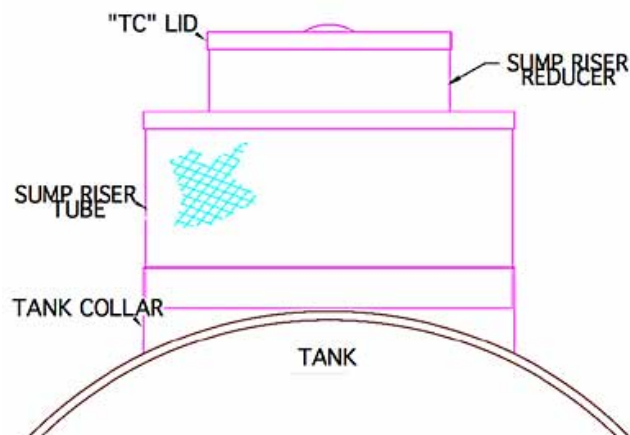
Mix 3/4 full, 5qt. large bucket of putty and 3/4 full 5qt. large bucket of resin at a time, for ease of handling. Hardener ratio at 70 degrees F. & 30% humidity is two (2) ounces per gallon for resin and one (1) ounce for putty. This will vary with temperature and direct sunlight. If used in direct sunlight or in temperatures above 80 degrees, reduce hardener as per instructions from supervisor or Western Fiberglass, Inc. personnel. Mix thoroughly, scraping the sides of the buckets with the stir stick.

Use squeegee or brush, and apply putty liberally to area of first seam, being sure to completely cover all fasteners and fill all gaps. The putty will provide a smooth transition for the fiberglass material to cover. The fiberglass material does not like to make 90 degree turns, this is why we use the putty to create a smooth surface with no sharp turns for the fiberglass. Lay first piece of fiberglass material across seam area evenly.

Wet-out or soak, with brush, liquid resin over fiberglass cloth material completely, material will go clear when fully saturated. Use pig bristle roller tool to "roll-out" air bubbles gently, so as not to displace putty. Remove all bubbles. Apply additional layers of material in same manner. Your laminate should appear clear, with no air bubbles or pockets in view and all fasteners covered. If additional resin is required, use only resin from Western Fiberglass, Inc. The resin used in construction of all Western Fiberglass, Inc. components is corrosion resistant resin, made for use in fuel and chemical applications.

CONTAINMENT COLLARS FOR FRP SUMPS:

Sumps without bottoms are used on tanks with containment collars that have been attached by the manufacturer. After determining correct sump size, slip the sump inside or outside of the containment collar ring. Use a bond kit (Part # AC8007) to bond sump tube to tank collar. See bonding instructions.

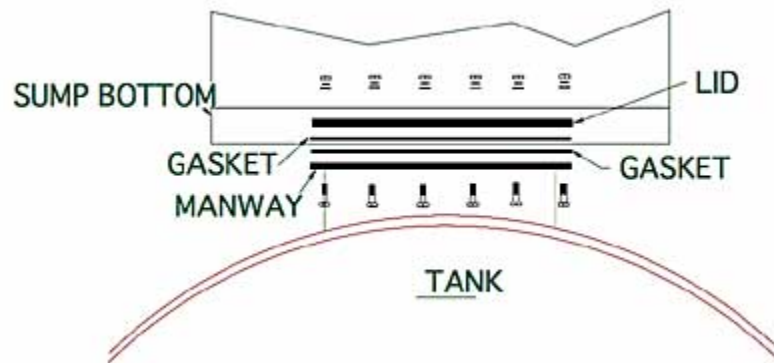


DIRECT CONNECTION FOR FRP TANKS:

FRP sumps may be attached directly to FRP or FRP clad tanks without collars. Sump Riser Tubes are cut to tank diameter and are direct bonded using bond kit (Part # TA8009 for 42" sumps, TA8010 for 48" sumps). See bonding instructions. For steel tank direct attachment installation information, please call WFG.

FRP MANWAYS OR HDPE POLYCON:

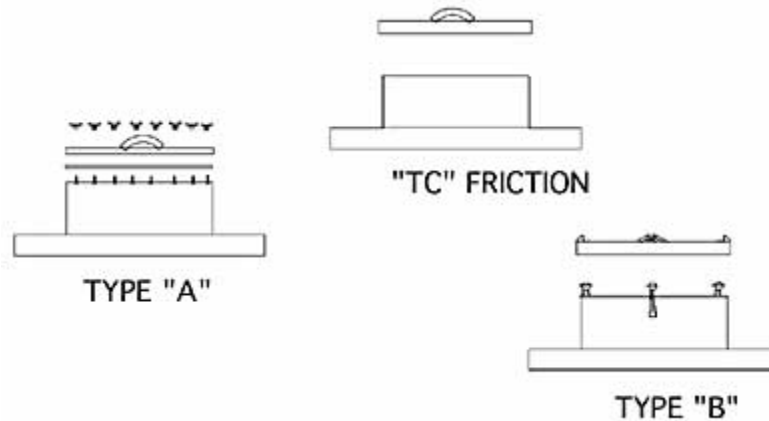
Please call WFG for double wall instructions. Sumps that are to be attached to manways require a bottom and may be ordered pre-drilled for the manway cover bolt pattern and/or cut to manway size. After removing the manway lid, use it as a template for cutting and drilling the sump bottom if necessary. Caulk manway riser, set sump into position, caulk around holes set lid inside sump and bolt together. This "sandwiches" the sump between the riser and lid assembly of the tank. Use a recognized material, second, tank/man-way gasket. We suggest the gasket kit from your tank supplier.



For Bung Fitting Installation for PolyCon Sumps, Please See Drawing Section of Binder.

SUMP REDUCERS:

To prevent leakage and to insure unit integrity, all FRP sump reducers must be slip fitted over the sump body or tube, bonded and sealed. See Bonding Instructions. T. C. or Friction lids simply slip over reducer top. "B" type, water resistant, lid systems utilize pull down "dog" or tie down to hold the lid securely against the sealing gasket on the reducer rim. "A" type lid systems are gasketed and bolted watertight with wing nuts, lock and flat washers.



SUMP PENETRATIONS:

Piping and electrical conduit penetrations are made using only a Listed/Approved penetration, sealing device. Use care when drilling through filament wound sump riser tubes. Do not force hole saw, for FRP sumps, cut hole slowly, half way through from both sides (inside and out) to prevent fraying of filament strands. Always use correct size hole saw or drill. Do not fiberglass bond piping or conduit directly to FRP sumps as this will not allow any movement, due to ground settling, back-fill, etc.

ADDITIONAL INSTALLATION REQUIREMENTS – STATE OF FLORIDA ONLY:

Leak Test Requirement:

- 1)
 - a. Fill entire sump within 4 to 6 inches of top.
 - b. Observe water level for a minimum of 3 hours.
 - c. Water level shall not decrease more than allowable for normal evaporation.
- 2)
 - a. Fill interstitial space of sump within 4 to 6 inches of top.
 - b. Observe water level.
 - c. Water level shall not decrease more than allowable for normal evaporation.

Interstitial space shall be tested by vacuum (5 bars) or pressure (2 psi) for a minimum of 10 minutes.

BACKFILL REQUIREMENTS:

Sufficient backfill must be used below and along the sump side to provide support and protection against ground movement.



TEST PROCEDURES FOR SINGLE WALL:

After the sump to tank fitting is completed, you shall test the integrity of your seal. This is important to insure that the sump riser tube / tank bond will not allow any contained fluid to leak. Check with local regulations for required testing procedures. A common test procedure is to fill the sump with water after the sump / tank bond has completely cured, usually overnight, and observe bond seam for any leaks.

PLEASE NOTE: U.L. Listed sumps require a listed, approved, electronic monitor/alarm system to be installed for operator notification in the event of product leakage within sump area.

TEST PROCEDURES FOR DOUBLE WALL:

After completion of the sump body test as described above, you may test the sump body interstitial space by applying no more than 2 psi to the port(s) installed within the sump body. The annular space may also be tested using liquid or vacuum. For test times or other requirements, always follow local regulations and restrictions.

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