

INSTALLATION INSTRUCTIONS

B-407-PP SERIES

SINGLEWALL COLLAR-MOUNT TANK SUMP

NEW!

SNAP-LOCK cover with high-pressure water-right vertical o-ring seal

Pour-in Place channel joint sealed by new Epoxy Slurry mix

Butt-joint sealed by fiberglass lamination



LOOK!

Have a 42"Ø tank collar but want a 48"Ø tank sump? We have a round interface option! Contact us now.

ii-B407-PP-14B

MANDATORY

The B-407-PP Series Singlewall Sump from S. Bravo Systems, Inc. MUST be installed by a **Bravo Certified Installer**. Get Certified at www.sbravo.com/cert

READ THESE INSTRUCTIONS - KEEP FOR FUTURE REFERENCE	
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- Closely adhere to all directions and warnings indicated on the product or contained in these instructions. This includes following the OTHER manufacturers recommendations and Installation guidelines including -but not limited to- equipment associated or in contact with, Bravo Systems Products.

- Warranty is void if there is any evidence of modification, abuse, negligence or improper installation.

- For assistance please call Bravo for technical support at (800) 28-BRAVO. Outside the U.S.A. please call (323) 888-4133.

SAFETY FIRST! S. Bravo Systems, Inc. urges you to carefully adhere to the normal safety procedures and precautions followed by your company. Please follow the mandates and compliances decreed by OSHA, local, State and federal regulations regarding the use of this product.

WARRANTY

All containment systems sold by S. Bravo Systems, Inc. are warranted to be free from defects in material and workmanship for a period of one year from date of purchase. This warranty will be limited to the repair and replacement of Bravo parts only and will exclude all claims for labor or consequential damage. No other express warranties given and no affirmation of S. Bravo Systems, Inc., or its agents and/or representatives, by words or action, will constitute a warranty. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

This warranty is void if there is any evidence of modification, abuse, negligence, or improper installation. If any fittings or components, other than S. Bravo Systems approved fittings or components, are used in conjunction with any S. Bravo Systems product, the warranty pertaining to these products is immediately void.

INSTALLATION COMPONENTS

PROVIDED

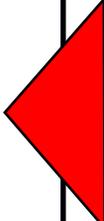
1 SLURRY KIT FOR CHANNEL
FOR 42"Ø (427) - EP-SLURRY-KIT-0.75GAL
FOR 48"Ø (487) - EP-SLURRY-KIT-1GAL
Slurry. Hardener. Gloves. Steel stator mixer. Bucket.

LAMINATION KIT

Resin. Catalyst. FRP mat. Gloves. Stir stick. Sandpaper.
Masking tape.

FRP TOOL KIT

Paint rollers. Paint roller handles. Chamfer roller. Mixing
bucket. Mixing sticks.



CRITICAL !!
IN HOT WEATHER, KEEP
SUMPS, SLURRY & RESIN
SHADED.

NOT PROVIDED

REQUIRED TOOLS

Air grinders and cutters. Acetone.
Hole saws. Drill bits.

EQUIPMENT DRY-FIT

BEFORE INSTALLING PENETRATION FITTINGS

**DO NOT PLACE FIBERGLASS SUMP ON THE BASE AND ATTEMPT TO
SEAL THE CHANNEL. READ STEP-BY-STEP INSTRUCTIONS FIRST.**

▲ CAUTION

If using electric powered-tools move piping sump a safe distance from piping, tank and any other source of flammable liquids or vapors before trimming. Failure to do so may result in serious injury or death. When installing on existing tank(s), use a Vapor Detector around

A - PREPARING BASE LAMINATION

Abrade the fiberglass walls of the bottom of the Tank Sump Base with air-driven sander up the wall - **Inside and Outside** - until fiberglass surface can be seen clearly and all gloss or coatings are removed. **Abrade more area than will be laminated.** Dust off with shop brush and keep clean.



We have created a basic “How To Laminate” video which can be found on our website at www.sbravo.com/videos

B - FIBERGLASSING BASE SUMP TO COLLAR OR TANK

B.1 - Pre-cut several dozen pieces of 6” wide fiberglass mat to lengths of 20-24”. You will need **3 layers** of these mat strips for the **INSIDE** and **OUTSIDE** joints of each piping sump.

B.2 - Mix resin and catalyst together with mix stick thoroughly.

B.3 - Use paint roller to apply resin generously to a smooth surface. Spread the resin so it ‘wets out’ an area larger than the strip of fiberglass mat. (**Fig. B.3**)

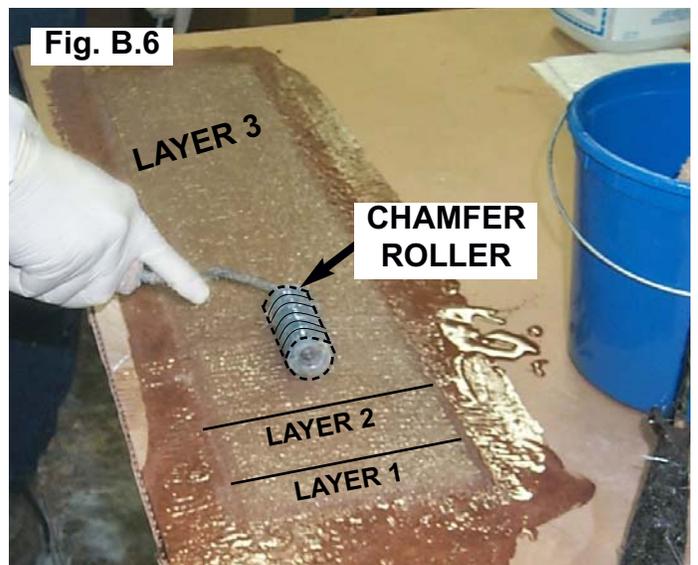
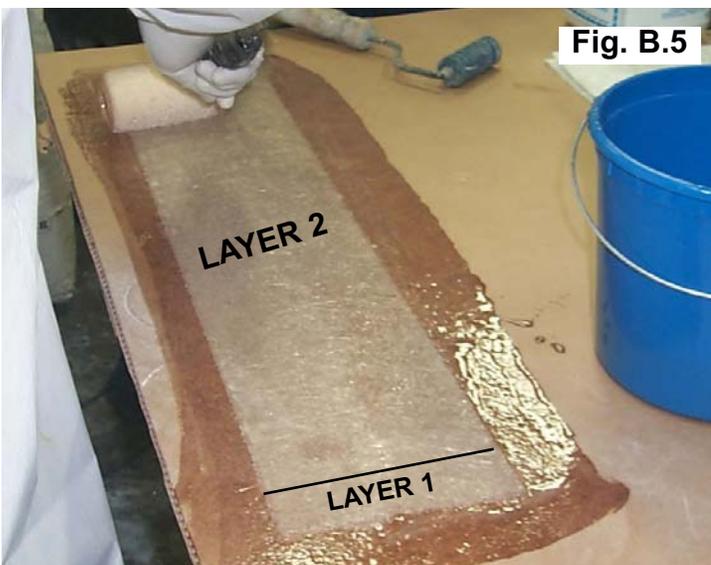
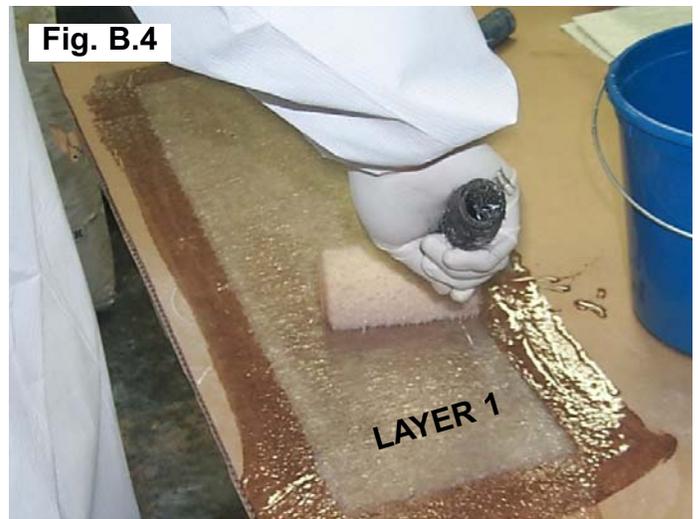
B.4 - Apply one layer of fiberglass mat to the resin and use the paint roller to add more resin to fully saturate it. (**Fig.B.4**)

B.5 - Lay down another strip of fiberglass mat, **staggering the new layer ONE INCH**. This means to offset the next fiberglass strip horizontally (lengthwise) 1” to the right. Roll more resin into the new strip to saturate it. (**Fig. B.5**)

B.6 - Repeat **Step B.5, offsetting another strip of fiberglass mat** and using the paint roller to add more resin to it until it is fully saturated. (**Fig. B.6**)

B.7 - Use a **Chamfer roller** to completely roll over the pre-soaked fiberglass strip while it is on the cardboard, horizontally and vertically, to run out any air bubbles. (**Fig. B.6**)

B.8 - Apply each “patch” to the tank sump seam, over the last, and **overlap the ends by FOUR INCHES**. Use the



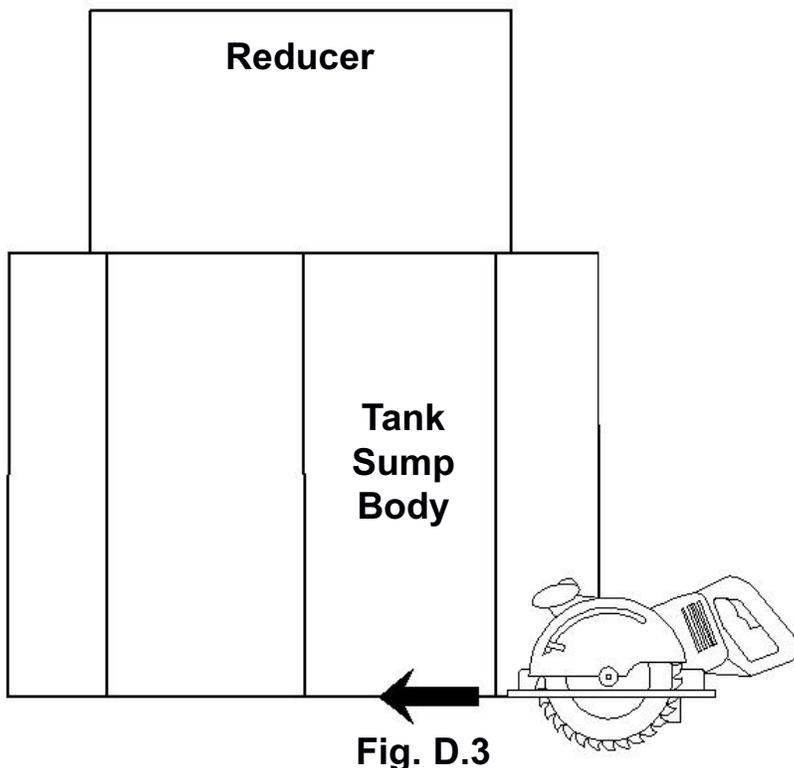
C - PENETRATION FITTING INSTALL

Install any penetration fittings and piping to the Tank Sump Base after the Base has been laminated in place. If any penetration fittings must be installed to the top half, wait until the top is sealed to the base before penetrating.

D - PREPARING TANK SUMP BODY

D.1 - Determine where your planned grade is. Following the illustration shown on **Page 7**, allow for 1" to 1-1/2" space between the top of your dry-fit sump cover and the lowest point of the installed manhole lid. After these measurements have been verified, cut the required material from the **BOTTOM** edge of the Tank Sump Body using a carbide tipped blade or masonry saw. Material must be cut square with a 1/4" +/- tolerance 360° around sump.

D.2 - Abrade the fiberglass walls with air-driven sander 2 inches up from the bottom edge on Tank Sump Body that will sit in the Retrofit Base - **Inside and Outside** - until fiberglass surface can be seen clearly and all gloss or coatings are removed. Dust off with shop brush and keep clean.



IMPORTANT

Double Check all calculations according to site plans and verify with team members



E - EPOXY SLURRY POUR

Follow the **SLURRY INSTRUCTIONS** manual affixed to your slurry can.

⚠ CRITICAL **DURING HOT WEATHER - KEEP ALL SUMPS, SLURRY AND RESIN SHADED AND OUT OF DIRECT SUNLIGHT UNTIL TIME OF INSTALLATION. AM (MORNING) INSTALLATION IS RECOMMENDED.**

⚠ CRITICAL **DO NOT DISTURB THE SUMP OR IT'S PIPING UNTIL AFTER THE FULL SPECIFIED CURE TIME**

F - TESTING SUMPS

- Conduct a water test **ONLY AFTER** all lamination joints and slurry pour joints are sealed and entry fittings are fully installed and all materials have fully cured. **Follow all local, State or Federal regulations regarding testing protocols.**

G - REPAIRING SUMPS

If tank sumps either arrive damaged or are damaged in the field, contact the factory.

H - BRAVO SNAP-LOCK COVER

The most current cover that is included with Bravo 407 Series tank sumps is the SNAP-LOCK.

To install:

- X) Remove protective wrapper from o-ring seal. It is pre-greased. Keep it clean of dirt / debris.
- 1) Unlock cams.
- 2) Step-to-seal.
- 3) Lock cams.

If you are unfamiliar with this new cover, read all about it at:

sbravo.com/snap



You can also see a video at:
sbravo.com/videos



SNAP-LOCK Cover (SL32)

I - Concrete and Backfill Guidelines.

To ensure that no immediate or future damage is done to your Bravo Tank Sump Reducer components, make sure that your manhole skirt **DOES NOT TOUCH OR REST ON THE TANK SUMP SHOULDER**. The Manhole Skirt should be kept at minimum of 4" away from the tank sump shoulder. Follow the manhole manufacturers instructions for installing the manhole. Also follow other details provided by tank and/or engineering firm for tank driveway pad installation.

Backfill your peagravel around the sump maintaining a minimum of 1' foot all the way around (if your site backfill is not entirely peagravel) and 4" minimum distance from the top edge of sump reducer.

When peagravel is in place, use a 3mil or thicker plastic sheet to cover the surface of the peagravel no less than 2 feet away from the sump reducer wall.

Secure this plastic barrier to the **EXTERIOR OF THE MANHOLE SKIRT** using tape or other temporary means. Do not staple or tek-screw it in place. This prevents concrete from seeping too far down into the peagravel while it is setting.

