

Part I

Installation procedures of Flexitank



Updated Jul. 13th, 2009

The following are recommended steps for proper fitment of Multi-Layer Flexitank into a 20 ISO Shipping Container. As in most tasks, common sense and safety considerations must be utilized.

STEP 1 INSPECTION

Carefully inspect the container to assure proper functioning of the container doors. They should be equipped with 4 Cam Locking Levers and seal/padlock tabs. The locking bars should not be bent and should engage properly. Inspect the floor, walls, and ceiling of the container for sharp items such as cracked metal, nails, holes, or broken "D" rings. Assure that all 8 corner post lock receptacles are intact. Walls should not be bent or distorted. Containers with starter panels or data plates should not be used.

STEP 2 CLEANING

With an industrial style wooden top push broom, carefully sweep the container floor while observing any defects. Additional lighting is helpful when examining the container. After the floor has been swept, flip the broom over and scrape the broom head over all floor surfaces. Listen and feel for any irregularities. Be especially observant for nails and broken nail parts in the floor. Remove any nails or other objects.

STEP 3 INSTALLING CARDBOARD

Using clean dry cardboard, tape the free end of the roll to the container wall just inside of the vertical recess and unroll the cardboard down the side of the container. Please leaving extra slack so that the cardboard can fill the corrugations, tape the cardboard to the wall approximately every 18 inch. Continue installing the cardboard all the way around the container until you reach the door on the other side. Tape the end of the cardboard to a point just inside the vertical recess.

Cut off two pieces of cardboard that are approximately 28 inch long. Using the blunt end of a utility knife or similar object, score the sheets from one end to the other in as straight a line as possible approximately 2 inch from one edge. Cut the cored place for approximately 4 inch from each end. This cut will allow the cardboard to fold up and be placed along the junction of the wall and floor along each. This cut will allow the cardboard to fold up and be placed along the junction of the wall and floor along each side of the container. Overlap the cut pieces in each end to form the corners. These two pieces when properly installed will completely cover the floor and overlap in the center.

STEP 4 PLACING THE FLEXITANK INSIDE THE CONTAINER

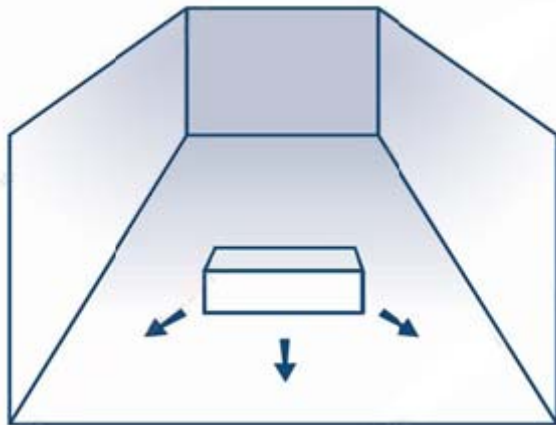
- 1) Put the carton on the middle line of the container, the distance to the door of container will be 1.5m.
- 2) Take the flexitank out of carton, outspread the tank according to the sketch map above. Make sure the loading and unloading valve toward the container doors.
- 3) Try to avoid walking on the flexitank with hard soled shoes. Roll out the flexitank to the front and rear walls of the container. Make sure the floor should be flat.
- 4) Make sure the black sign line keep in the middle of the container. Extend toward the middle and should be equal.
- 5) Depending on the size of the flexitank being fitted to the container, various amounts of flexitank

material will stand up against the front and rear of the container. About 5cm more should extend upward against the bulkhead(s) and front head of the container. Extend upward against both ends should be equal. And about 32.5 inch more should equally extend upward against the both side walls of the container.

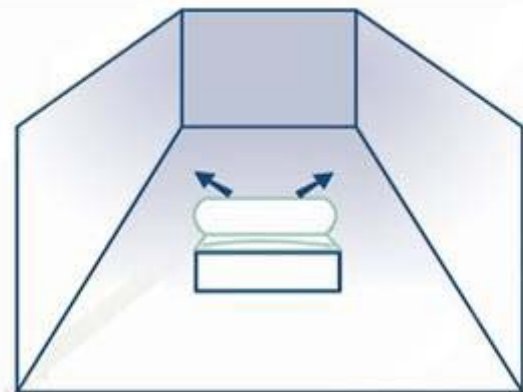
STEP 5 INSTALLING THE BULKHEADS

- 1). Lift the first steel bar into position across the door. Align the steel bar with the vertical recess in the container.
- 2). Do this one by one, till five steel bar have been installed well.
- 3). Make the corrugated cardboard cling to the steel bar, dig the exact hole in the cardboard, use the 10 pieces of cable ties tie the cardboard to the steel bar.
- 4). Make sure the bulkheads are installed firmly.
- 5). Apply any required warning labels to the left container door. Close both doors.

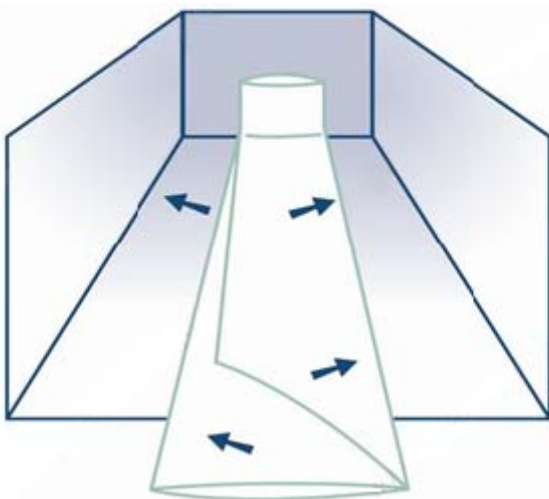
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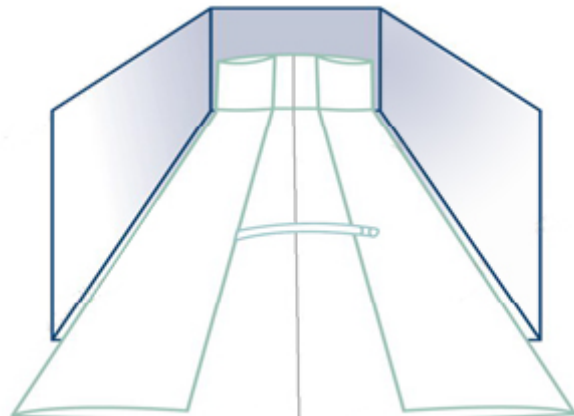
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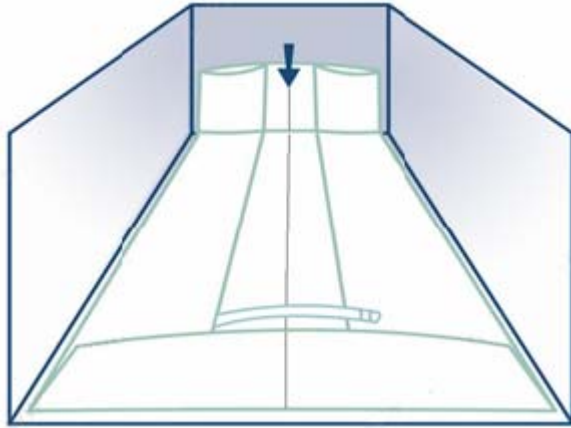
2) Take the flexitank out of carton, outspread the tank according to the sketch map above. Make sure the loading and unloading valve toward the container doors.



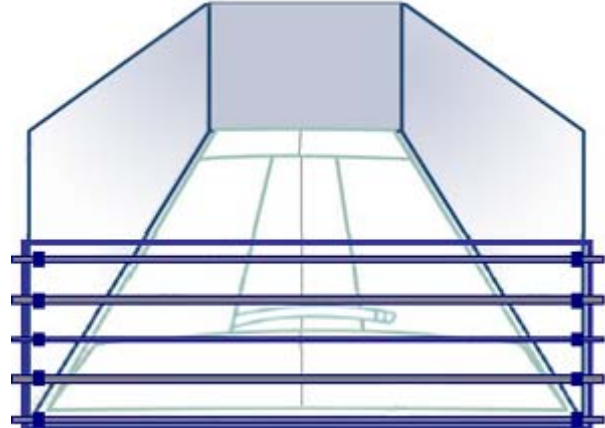
3) Try to avoid walking on the flexitank with hard soled shoes. Roll out the flexitank to the front and rear walls of the container. Make sure the floor should be flat.



4) Make sure the black sign line keep in the middle of the container. Make the extend toward the middle and should be equal.



5) Depending on the size of the flexitank being fitted to the container, various amounts of flexitank material will stand up against the front and rear of the container. About 5cm more should extend upward against the bulkhead(s) and front head of the container. The extend upward against both ends should be equal. And about 32.5 inch more should extend upward against the both side walls of the container. The extend upward against the both side walls should also be equal.



6) Lift the first steel bar into position across the door. Align the steel bar with the vertical recess in the container.

Do this one by one, till five steel bar have been installed well.

Make the corrugated cardboard cling to the steel bar, dig the exact hole in the cardboard, use the 10 pieces of cable ties tie the cardboard to the steel bar.

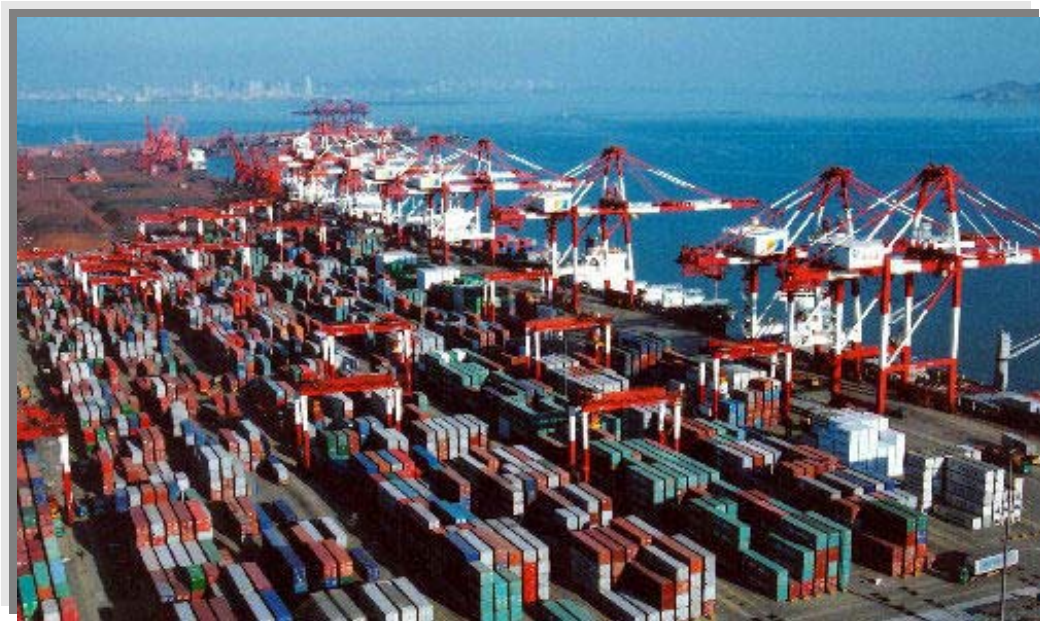
Make sure the bulkheads are installed firmly. Apply any required warning labels to the left container door. Close both doors.

Warning

- Multi-Layer flexitank is suitable for the non-hazardous liquid.
- Multi-Layer flexitank is only loading into ISO 20" Shipping Container.
- Multi-Layer flexitank can't be overloaded.
- The loading capacity can't be lower than 95% of the rated capacity.
- The highest loading temperature is 60°C
- The lowest loading temperature is -15°C
- The velocity of flow can't exceed 700liter/minute.

Part II

Discharge procedures of Flexitank



STEP 1

Preparing to discharge

- Position container as close as possible to the receiving storage tank
- Ensure there is a gentle slope from the front to the rear
- Check that the container doors are not damaged and that bolts are still secured in place
- Open only the right hand door slowly

Discharging

- Connect the flexitank hose to the discharge pipe firmly
- Turn on pump and allow product to flow into storage tank
- Ensure the hose is slack enough to drop with the liquid level



STEP 2

Disposal of Flexitank

1) Incinerator

- Roll empty flexitank firmly
- Deliver flexitank to local incinerator facility
- Ensure that the facility has compliance with environmental regulations

2) Landfill

- Drain flexitank
- Detach hose and valve
- Cut material into sizes no larger than one square yard
- Deliver material to a designated and authorized company

OR