

**EFFICIENT  
SMART  
SAFE**



***Fitting Instructions Manual***  
***E-Flex Easy Flexitank***  
***with Pool***

Rev03-220112

**Liqua**

## | Flexitank article numbers (printed on the flexitank label) to be fitted according to this manual

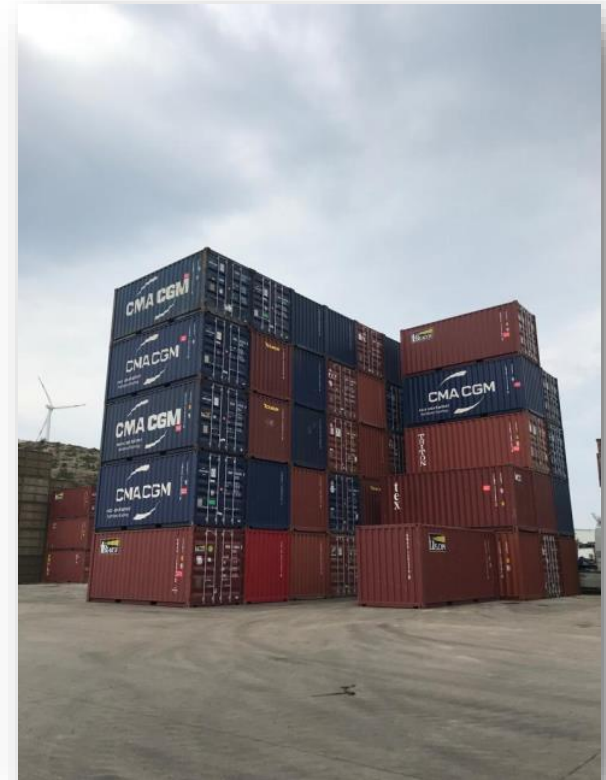
- AAX.EOP3
- AAX.EAP3
- AGX.EAP4
- AAX.EOP4
- AAX.EAP4
- JGA.EVP4
- SEA.EAP4
- DOH.EAP4



# Container Selection

Ensure below criteria are met for the containers...

- No older than 5 years.  
IMPORTANT: The above is the requirement set by Container Owners Assosiation. If not possible, ensure that below conditions are met.
- Manufactured according to ISO 668 norm.
- Weight tested to a minimum of 28,000kg.
- Clean, structurally sound and in excellent condition.
- No repairs on side walls and there no damage to the floor.
- Use food grade containers only, that are free of any odor.
- There are no insects, soil or contaminants that may cause customs issues at the destination.



# Container Selection

**DO NOT** use damaged/broken containers as shown below.

Broken or bulged containers can be rejected by the shipping lines at a later stage.



**Bulged Container**



**Damaged Container**

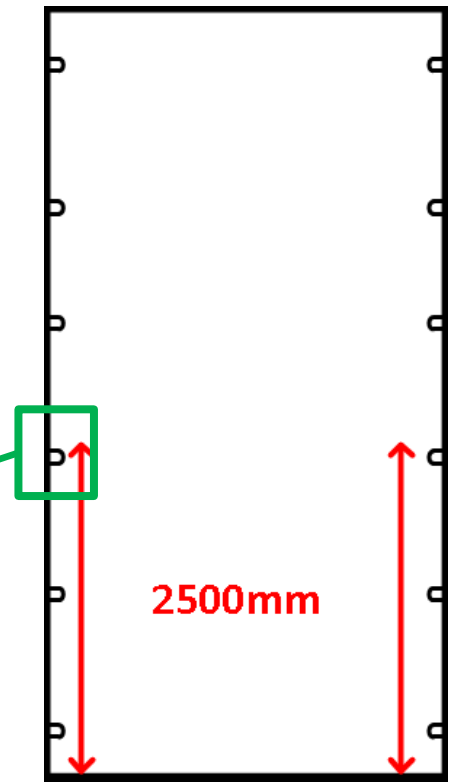
# Container Selection

- Use ONLY standard containers designed according to ISO 668 international norm.
- Ensure that containers have lashing rings on the floor.



# Container Selection

Central lug position may differ from one container to another. Ensure that there are lugs positioned at least 250cm far from the doors.



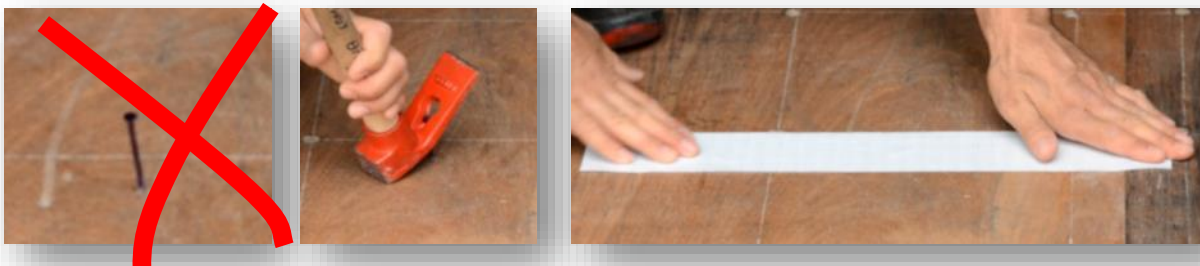
DOOR SIDE

# Container Selection

- Sweep the container carefully with a broom.
- Ensure that the door bolts are silicon covered.



- Ensure that nails, sharp and rough objects that may damage/puncture the flexitank are removed.
- Cover uneven areas on the walls and on the floor with duck tape (thick tape).



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# Contents of the Box



Open the E-Flex box and ensure that the following are in the package:

1. E-Flex Easy Flexitank
2. Pool Liner (2 pieces)
3. Warning Labels
4. Adhesive Tape



**The box will be used for door protection.  
WE'LL PRESERVE THE BOX!**



# Positioning the Pool

Line the container walls with the pp lining fabric.

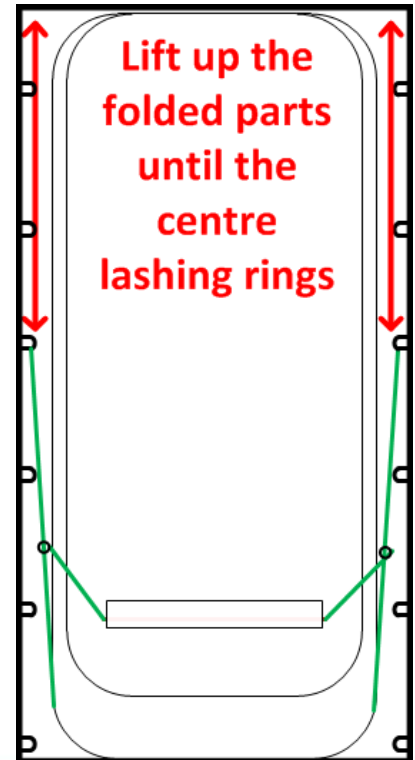


Lay out the pool on the floor of the container.



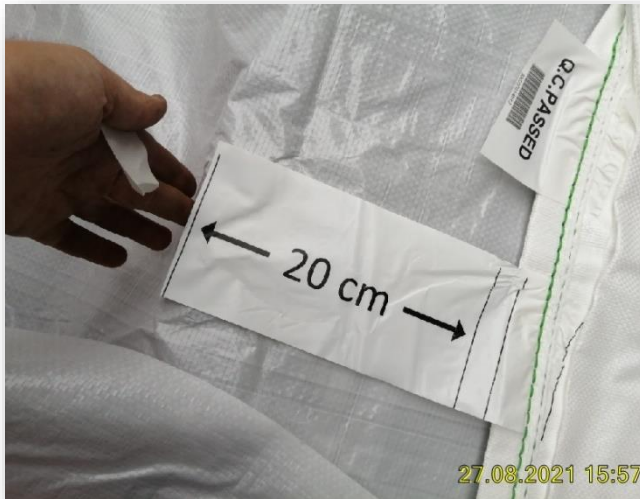
# Positioning the Pool

- Lift up the folded part of the pool at the front wall end and tape it to the wall.
- Lift up the folded part at the sidewalls and tape them to the side walls until the central lashing rings which the flexitank belts are to be tied.



# Positioning the E-Flex

- The distance between the E-Flex and the outer end of the container (NOT where the wooden floor begins) must be **20 cm**. Use the label for reference.
- Properly positioned Pool Liner at the door side, ends up at the front wall.



# Positioning the E-Flex

- Position the E-Flex to the edge of the right door.
- Unroll the E-Flex.
- **DO NOT** step on the E-Flex while unrolling.



# Positioning the E-Flex

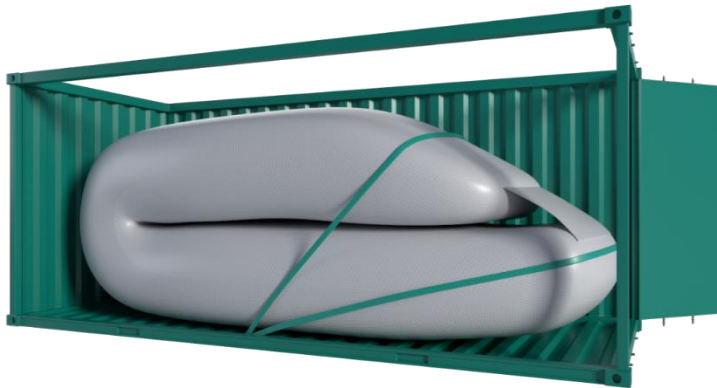
- Pass the lashing belts through the pre-cuts marked on the pool in green color.



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# E-Flex Flexible Harness

- E-Flex must be well fastened to the lashing rings/lugs on the container floor.



## **E-Flex** WARNING

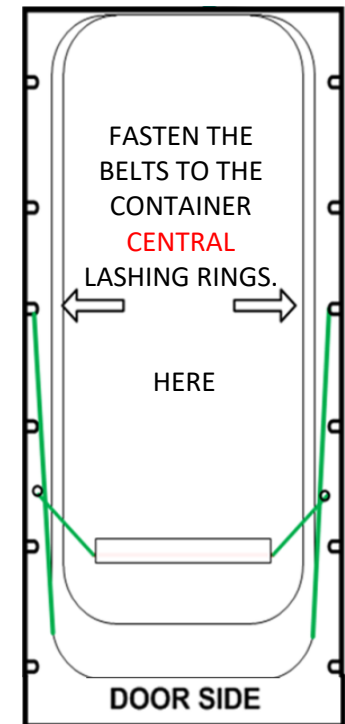
- DO NOT WEAR SHOES AT ANY TIME YOU WALK ON THE E-FLEX. STEPPING ON THE E-FLEX WITH ANY TYPE OF SHOES MIGHT CAUSE MICRO HOLES AND LEAD TO LEAKAGE.
- MINIMIZE THE TIME YOU SPEND ON THE E-FLEX WHILE LASHING THE BELTS.
- THE ZONE AROUND THE VALVE AREA IS THE MOST DELICATE PART OF THE E-FLEX FOR ANY EXTERNAL DAMAGE. AVOID STEPPING AROUND THE VALVE AT ANY TIME.
- DO NOT BRING IN OR USE ANY CUTTER/KNIFE WHILE YOU ARE INSIDE THE CONTAINER.



# Belt Tying

Tie the lashing strap to the **CENTER** lug/lashing ring “taut but not tight”.

Central lug position may differ from one container to another. You may not find the lug positioned at the very center of the container. In any case, ensure that the harnessing belts are tied to a lug positioned at least 250cm far from the doors.





# Belt Tying

**IMPORTANT:**

E-Flex is designed such that it will stand at least 15cm away from the doors after the filling. Loose or improper tying will inactivate the harnessing system and may cause the E-Flex to shift/move towards the doors.

Also too tight/short belt tying may cause capacity loss and a possible damages.



**ENSURE THAT BELTS ARE TIED TAUT BUT NOT TOO TIGHT.**

# Belt Tying

- **DO NOT** remove the pre-folding paper tapes.



# Belt Tying

- Ensure that straps are tied to the **CENTER** lug/lashing rings!



# Door Protection

- The flexible harness prevents any movement of the E-Flex. However to make sure that any sharp object/bolts on the door does not damage the flexitank, the carton box should be collapsed and used for protection.
- The box will be used as a door protector. Collapse the box as shown.



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# Door Protection

- Suspend the boards to the door closing bars.



# Check List

- Fill in the provided Check List and stick it to the door on the right hand side.



## **| Warning**

**IMPROPER FITTING MAY CAUSE CAPACITY PROBLEMS, INNER LAYERS MAY GET STUCK AND STRETCH. THIS MAY CAUSE SEVERE LEAKINGS. ONLY TRAINED AND LICENSED OPERATORS ARE ALLOWED TO FIT OUR FLEXITANKS.**

**IF FITTING OPERATION HAS BEEN PERFORMED AT ANOTHER LOCATION, PLEASE ENSURE THAT THE E-FLEX HAS NOT MOVED DURING LOCAL TRANSPORTATION.**

# Warning Labels

- Stick the warning labels on the side walls and the doors of the container.
- Clean the surface of the container prior to sticking the label for better adherence.





# I FAQ

## **What happens if I don't tie the harnessing belts?**

You may consider the harnessing belts of E-Flex like the seat belt of your car. If you don't buckle your seat belt and no accident happens during your travel, you arrive to the final destination safely. However in case of an accident, due to lack of seat belt, you may die or get severely injured.

Same principal is valid for E-Flex. If you don't tie the harnessing belts, nothing may happen until the final destination but in the event of an impact or accident, flexitank may shift towards the doors and cause a severe damage.

Also, when the container arrives to the final destination, flexitank may bulge out of the container at the time consignee opens the door. This might create hazard to the operators.

Ensure that harnessing belts are tied in line with LiquA instructions.

# I FAQ

**Do I necessarily need to line every container with a protective material?**

No...

We ask you to clean the container and inspect the sharp objects on the container surface very carefully. If you feel confident about the conditions of the container, you do not need to line the container.

However, wooden floor of the containers may always have the possibility to contain splinters on the surface. Splinters as such may cause damage on the surface of the flexitank. We recommend lining the containers with carton boards or with pp woven material provided by LiquA.

**IMPORTANT:** Lining the container DOES NOT guarantee to protect E-Flex against splinters or sharp objects. Take necessary precautions as if there was no lining materials.

# I FAQ

## **How important is it to position the E-Flex correctly on the container floor?**

It is very important...

20ft containers have 32m<sup>3</sup> free space in it and we use up to 27m<sup>3</sup> of it. We ask you to position the flexitank 20cm from the outer edge of the container. If E-Flex is positioned wrongly towards the front wall, every 10cm will cause capacity loss of 1m<sup>3</sup>.

Also E-Flex stands on the floor as a two dimensional object. Layers get opened during the filling. Any mistake at the positioning of the E-Flex may cause inner layers to get trapped which may cause a rupture and leak.

Please follow the positioning instructions very carefully.

# I FAQ

## **If I shorten the belts, untie the knots or position the flexitank in a different location can I reduce the flexitank capacity?**

No.

- DO NOT change position of E-Flex on the floor of the container.
- DO NOT untie the knots on the flexitank.
- DO NOT tie the harnessing belts to a different location other than shown in this manual.
- DO NOT change the foldings.
- DO NOT remove the guiding paper tapes on the E-Flex.

In the contrary, changing any of the above not only do not change the capacity but also creates a hazard which may end up with a leak. E-Flex is designed to be assembled as easy as possible. Our production team has already folded, knotted, taped and prearranged everything for an easy fitting. Do not change any of the above. Just unroll the E-Flex, position correctly and tie the belts to the proper lashing rings/lugs.

Changing any of the above DOES NOT reduce the capacity. Fill E-Flex within the tolerances mentioned at the label and datasheet.

# FAQ

**If the container is not in good condition, shall I use metal bars to support the side walls?**

No, E-Flex is a self supporting flexitank and it does not exert pressure to the side walls.

DO NOT use any metal bars under any circumstances.

It is not needed, it does not help, on the contrary, metal bars may create a hazard, damage the flexitank surface and cause a leak.

DO NOT use any material other than the ones you find in the E-Flex box.



# Common Fitting Mistakes



**DO NOT change the foldings**



**The distance must be 20 cm between the flexitank and the outer end of the container**



**The belt tying must be 'taut but not tight'**

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**THANK YOU**

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