

SiloDome

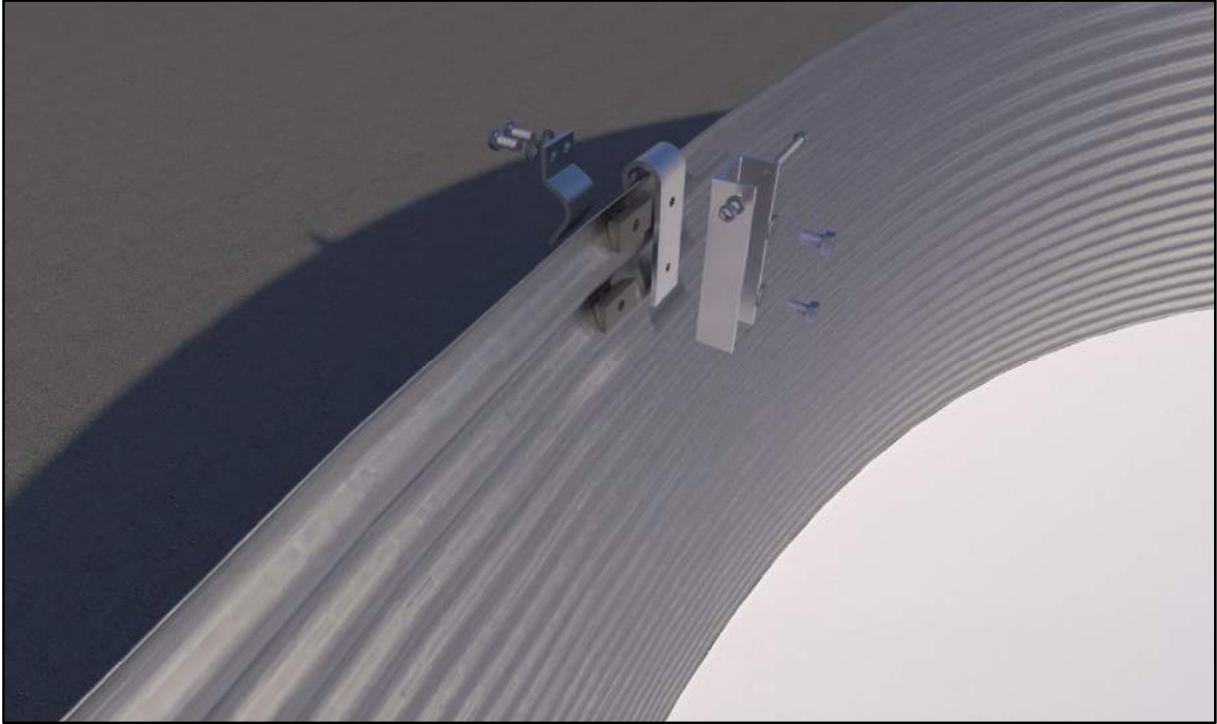


Fig.1

Mount all brackets on the silo wall preferably where the silo plates overlap, between the rows of bolts. Start with hanging the bend bracket over the silo edge. Put the 2 black blocks in between the silo and the bracket. Screw the inner bracket to the bend bracket with 2x M12x20 and 2 washers. Now screw the outer bracket to the bend bracket with 2x M12x25 and 2 washers. Do not tighten the screws all the way. This way you can position it if need be.

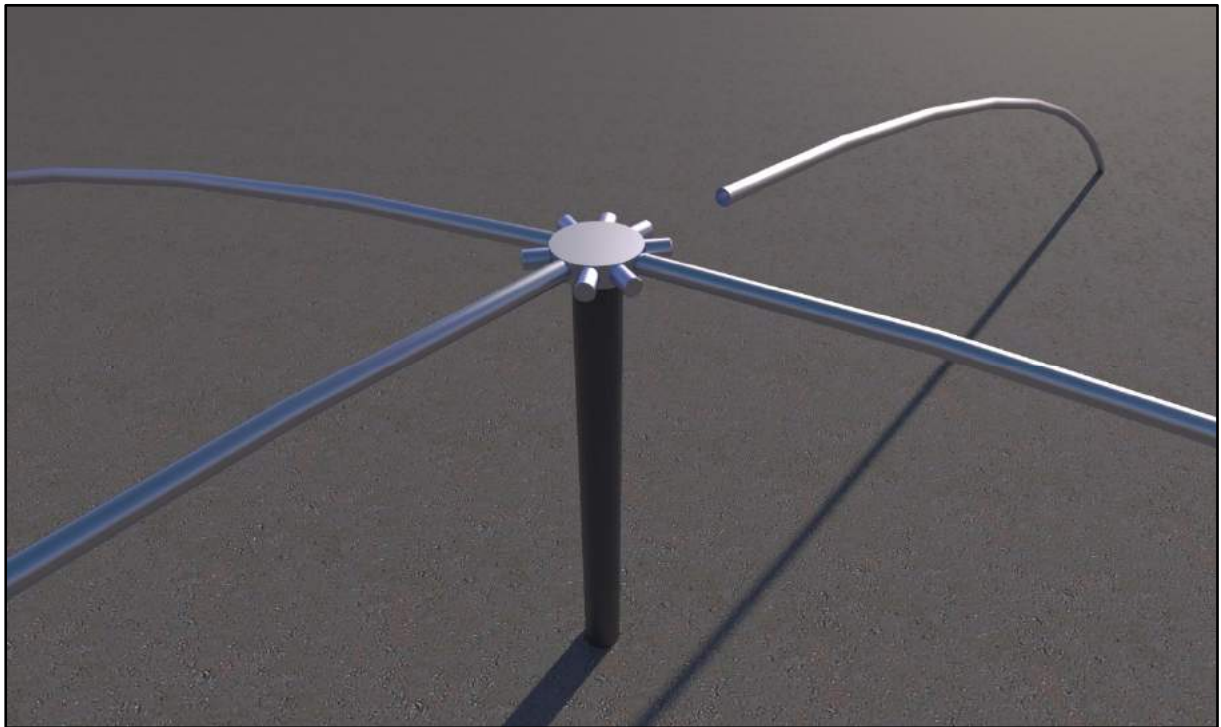


Fig.2

With every delivery of the SiloDome a piece of PVC pipe is supplied as an accessory with the correct height of the frame on the silo. Place the center piece on this PVC pipe and connect 3 or 4 beams to the center piece depending on the size of the silo.

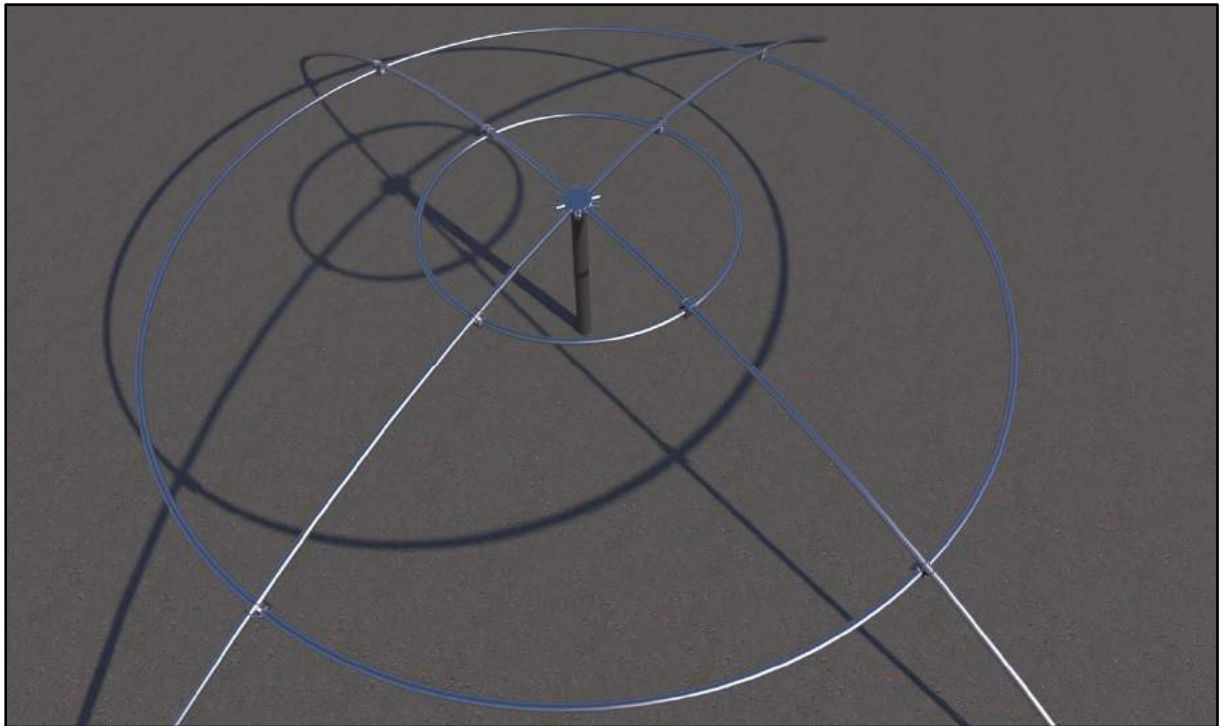


Fig.3

Attach the first reinforcement ring to the beams with the help of the connectors, do not fully tighten them so that the beams can still move a little. However, the beams must no longer come loose from the middle section.



Fig.4

Find the marker lines on the beam. Place the connector over the reinforcement ring and push it against the ring and slide the U-bolts from above over the beam and through the holes of the connector. The marker line should be between the 2 U- bolts. Tighten the U-bolts with a washer and nut. Repeat this for the remaining beams. All mounting materials are stainless steel. Do not over tighten them or they will break. **FIXED = FIXED.**

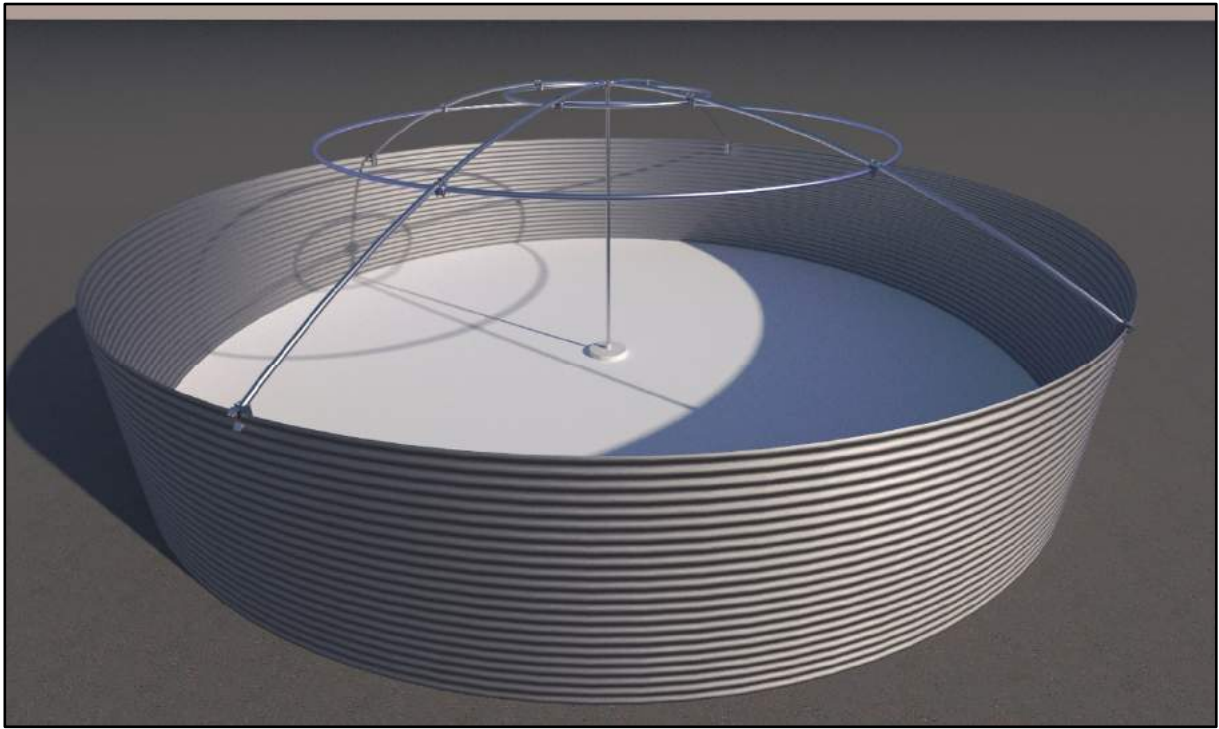


Fig.5

The central pole consists of 2 parts, which are adjusted to the correct height. This = Silo height + rise of the frame. This height is indicated on the assembly form. The pole is supplied with a concrete base, place it in the middle of the silo. Now lift the frame onto the silo with several people and secure it in the already mounted brackets. Connect the pipe with the bolt, washer and nut. If it is difficult to fit the beams into the brackets, adjust the height of the center post slightly.

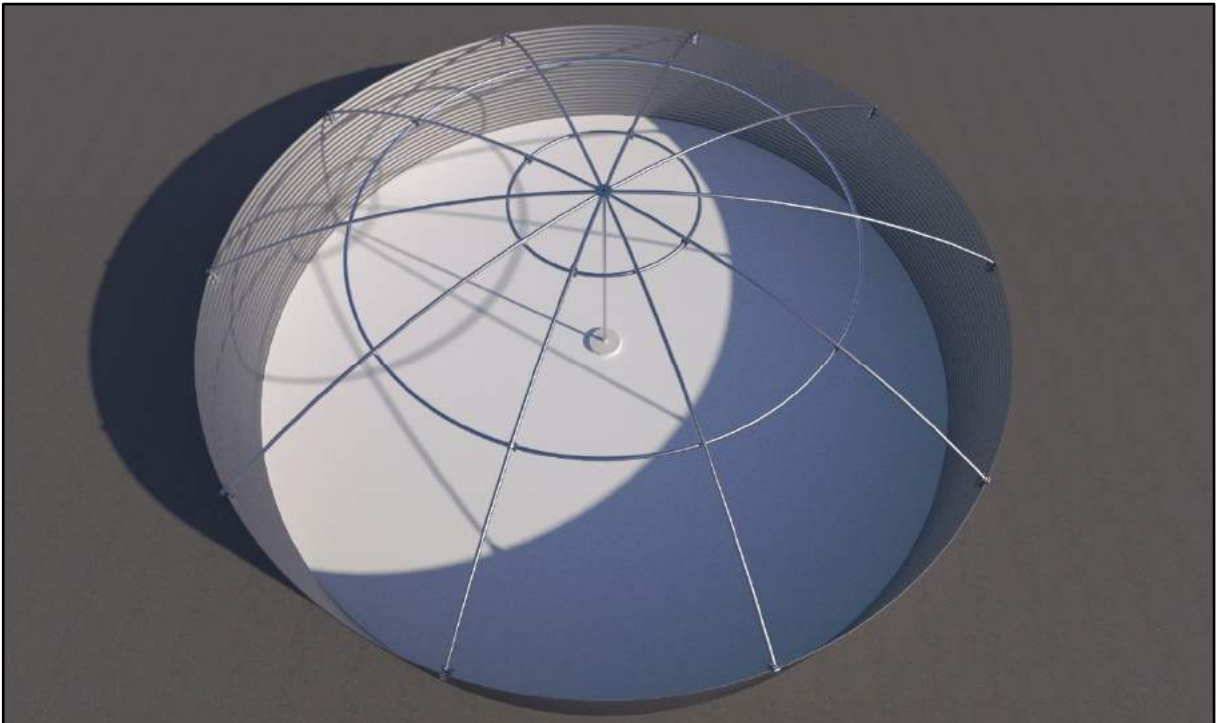


Fig.6

Mount the remaining beams from the silo edge. Always fit the beams **over** the reinforcement rings. It is also possible and often easier and faster to built the frame completely outside the tank and then lift it onto the tank with a few assistants or with a crane.

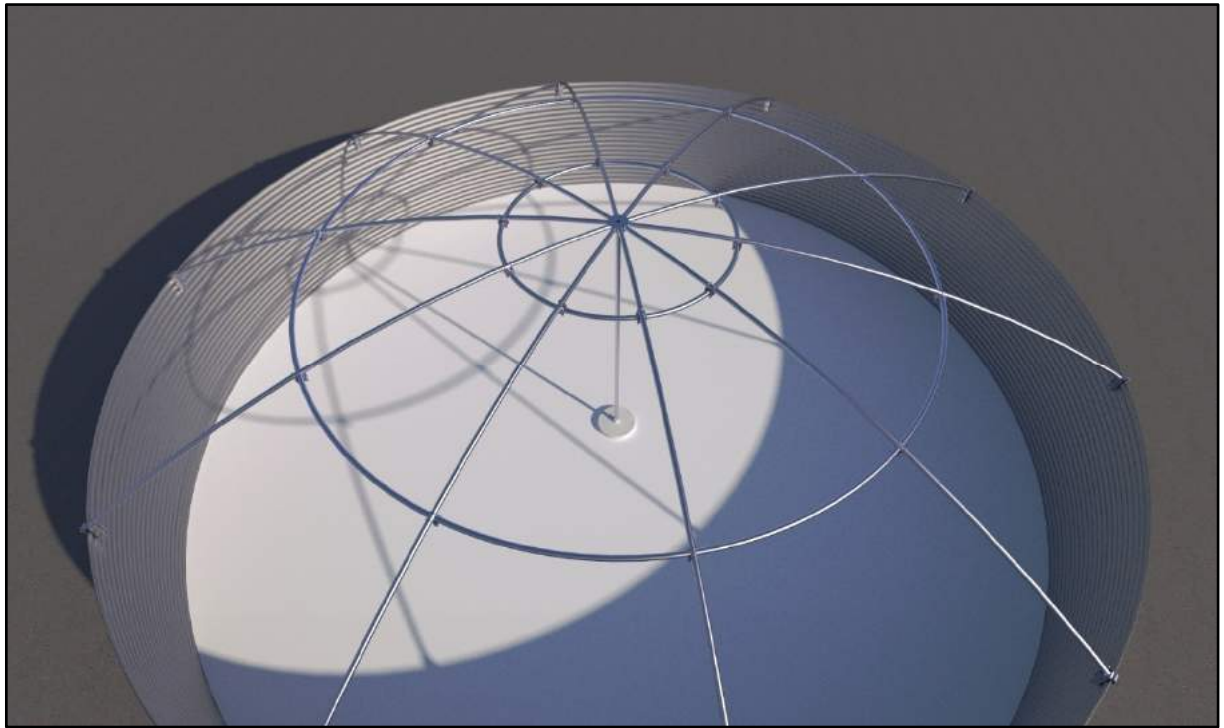


Fig.7

Now attach the remaining connectors to the beams and reinforcement rings so that all cross connections are connected. Check the distance between the reinforcement rings and tighten the stainless-steel nuts by hand, do not force them. **FIXED = FIXED.**

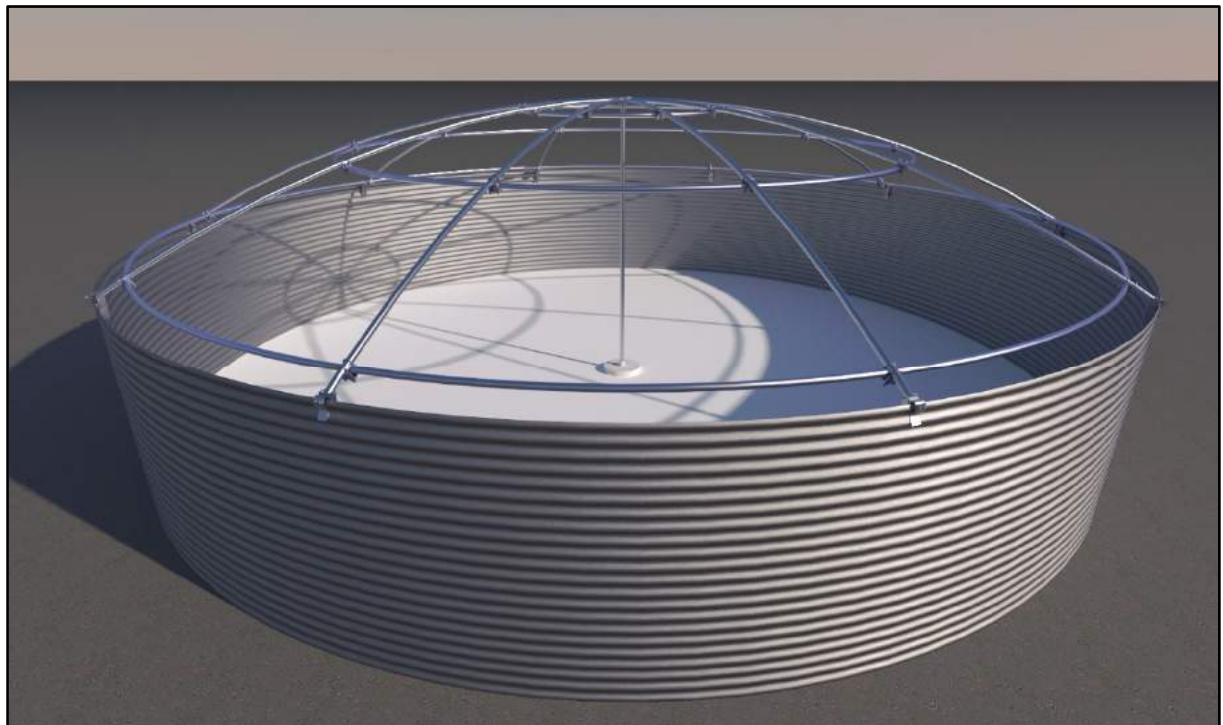


Fig.8

Finally, attach the outer reinforcement ring (closest to the silo edge) and mount it as described above. Check the distance between this ring and the silo edge.

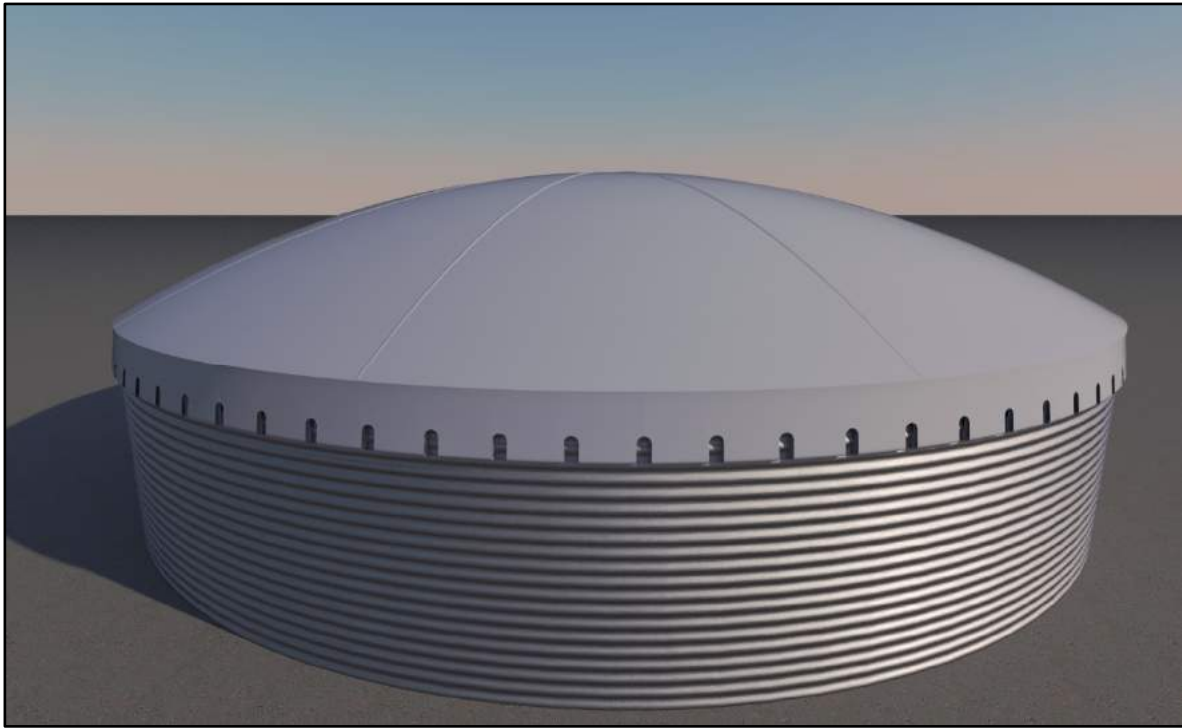


Fig.9

Now roll out the cover along the silo and pull the cover over the frame with several people. Make sure that the manhole is between 2 beams. It can be useful to place a ladder against the frame in the middle to guide the cover over the frame. Make sure the cover is straight on the frame, so symmetrical all around.

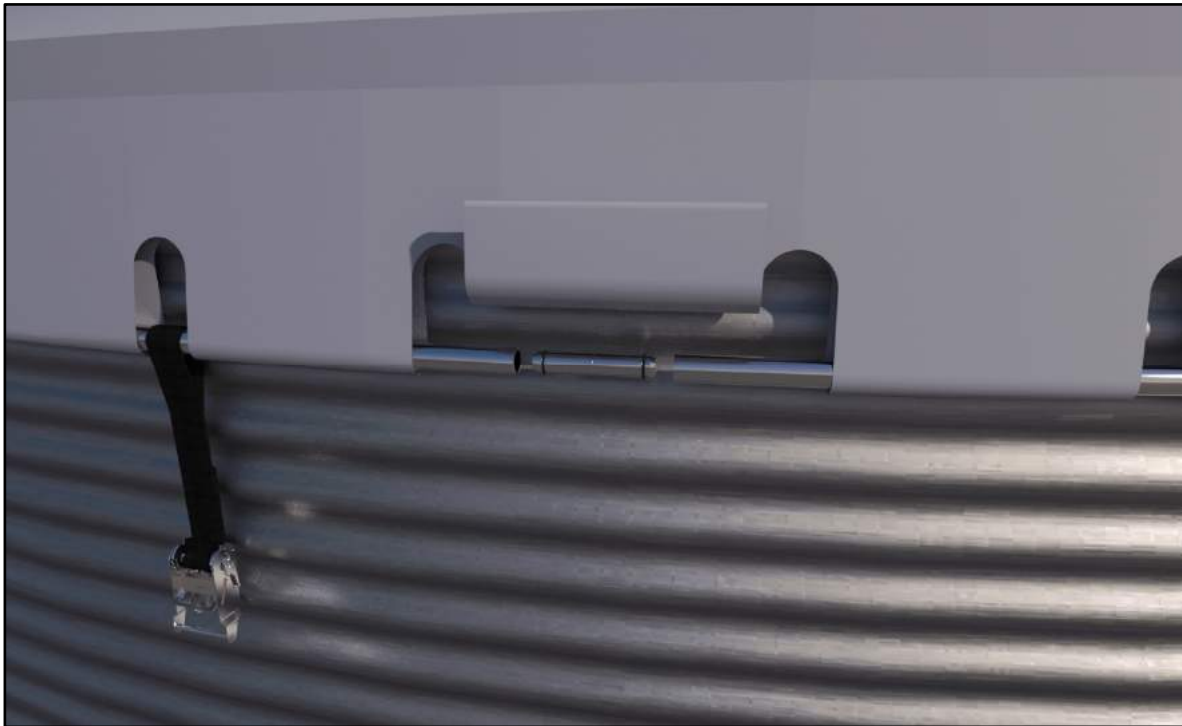


Fig.10

When the cover is over the frame then insert the arched tubes in the open hem. 1 tube followed by a coupler and 2 ratchets. 2 ratchets per silo plate.



Fig.11

When all arched tubes except for the last one are inserted you slide the endcoupler over the first arched tube.

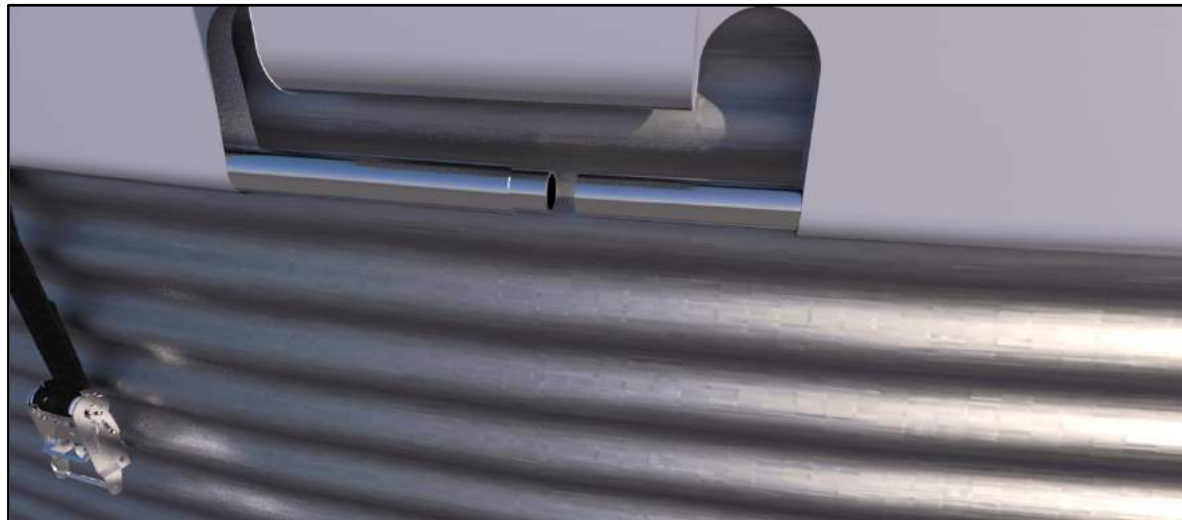
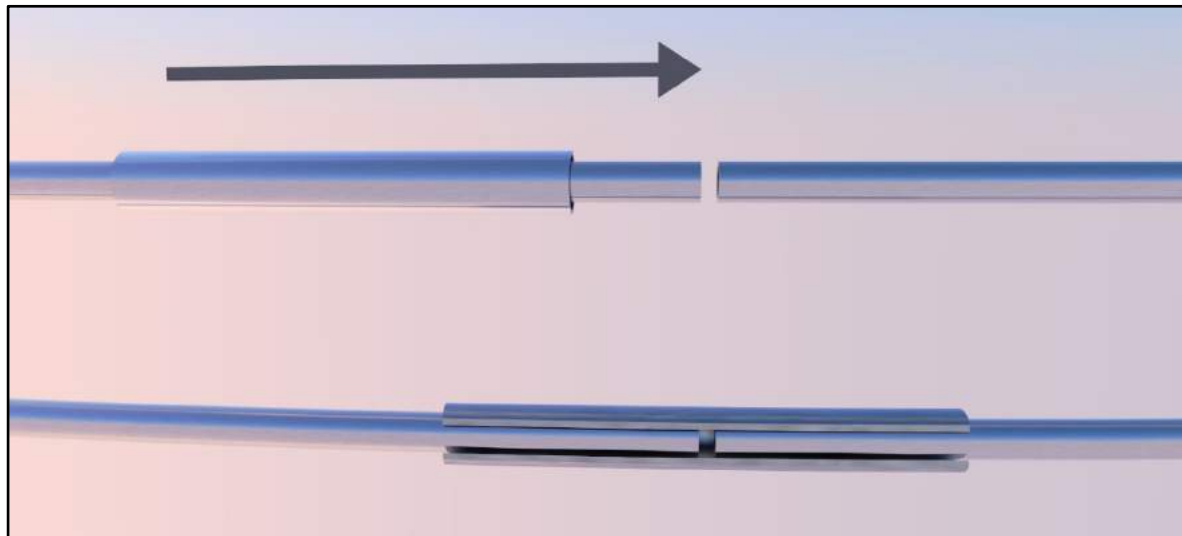


Fig.12

Saw or cut the last arched tube to size and slide the endcoupler over the first and last arched tube so it sits in the middle.



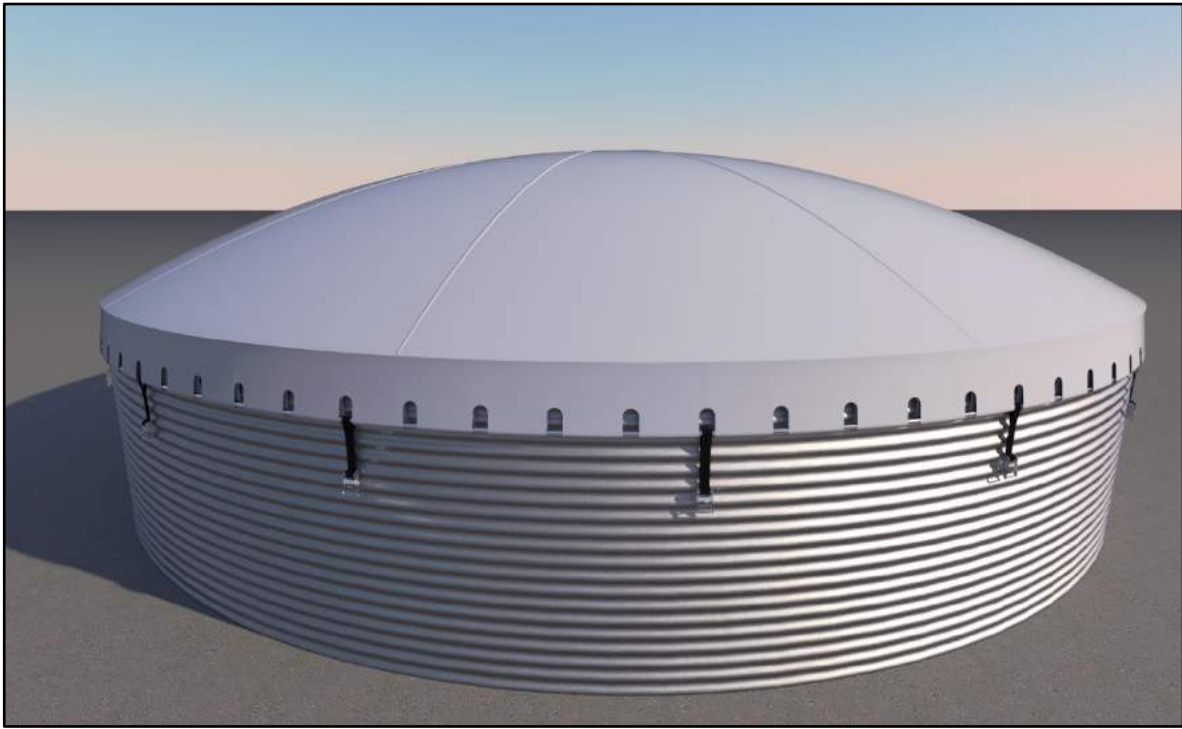


Fig.13

Per silo plate there are 2 ratchets. Make sure the ratchets are where the bolts are that connect the silo plates and in the middle of the plates. Tighten the SiloDome until it is nice and tight everywhere. **FIXED = FIXED**

The cover of the SiloDome must always be tensioned when it is attached on the frame. If the cover is loose on the frame, rain and/or wind can cause damage to the cover and/or frame.