EYS

BC SERIES

INSTALLATION GUIDE

January 2017

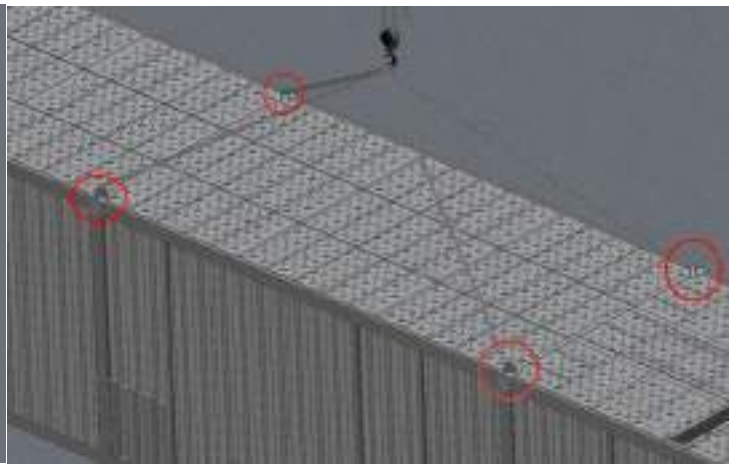
Concrete base which EYS bedding composter will be placed must be ready before starting installation. Bottom container will be placed on concrete floor so it must be level and flat. Minimum required area of concrete floor is indicated in the project. You can also contact with EYS for this information. It is very important for stabile operation that the concrete ground is flat.

Necessary equipments to start installation;

- Crane,
- Allen wrench and socket set,
- Heating gun,
- Welding machine,
- Twist drill.

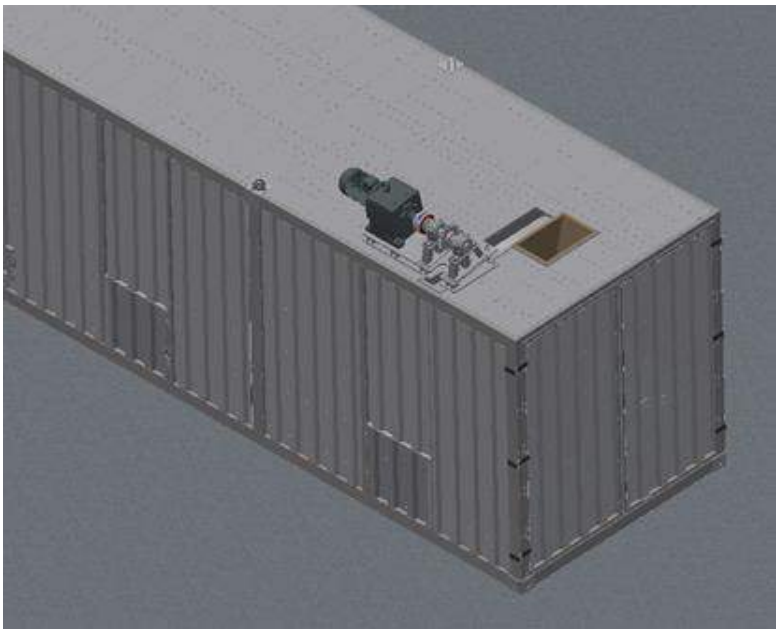
Firstly, connect chains of Crane to four eyebolts of bottom container. Then lift it with Crane. Place bottom container on concrete floor slowly.

WARNING!	Observe wind speed before working with Crane. There are safety rules and limitations in each country. Use crane with caution based on your local health and safety rules. If wind speed is greater than allowed value in your area, stop operation of lifting top container parts immediately! Otherwise pieces may fall and cause injury or even death. Continue operation when wind speed is below allowed value in your area.

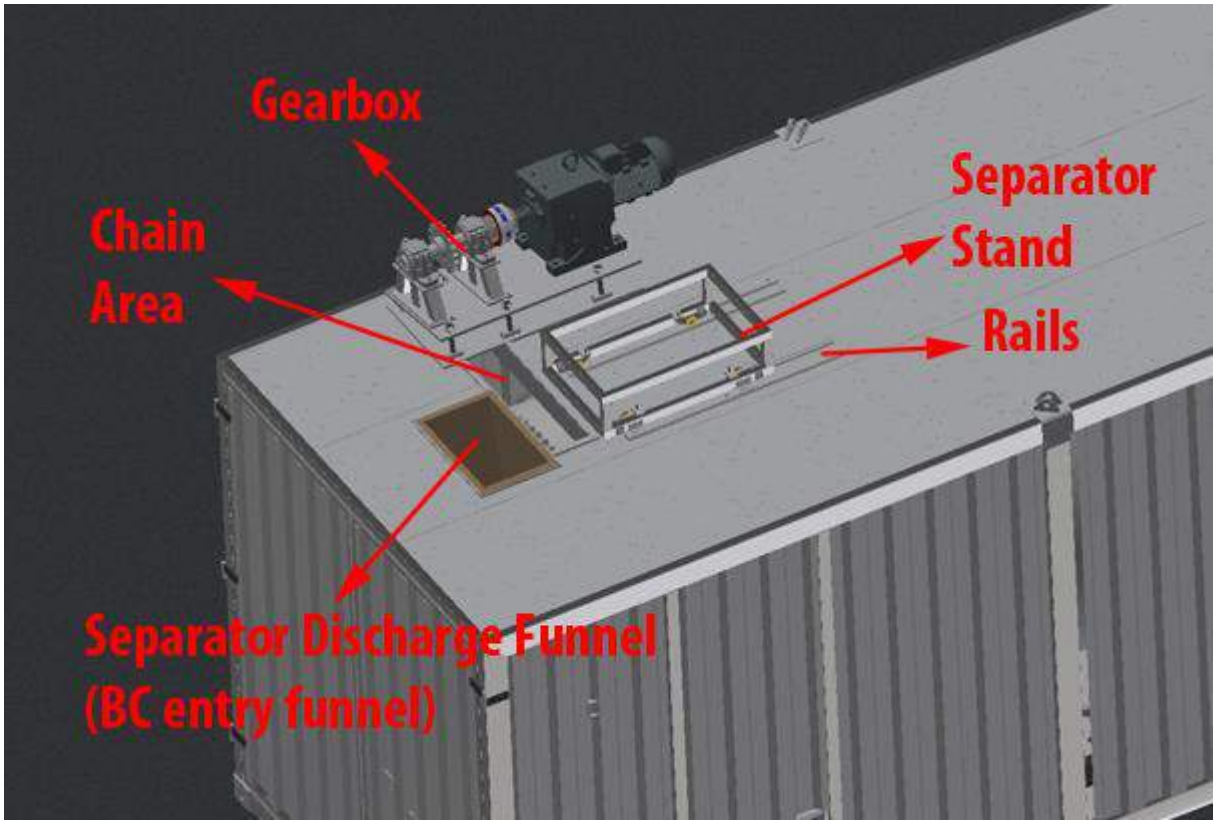


Bottom container will be placed to a specific position which is described in the project. Mark corner points with a piece of chalk or paint before placing bottom container. Then connect a rope to drum drive gearbox, lift it and place it on bottom container.

Position of drum drive gearbox is clear on bottom container. Gearbox will be mounted as shown in images on the right and below. After mounting gearbox, tighten screws and nuts, but don't connect drum gear yet.

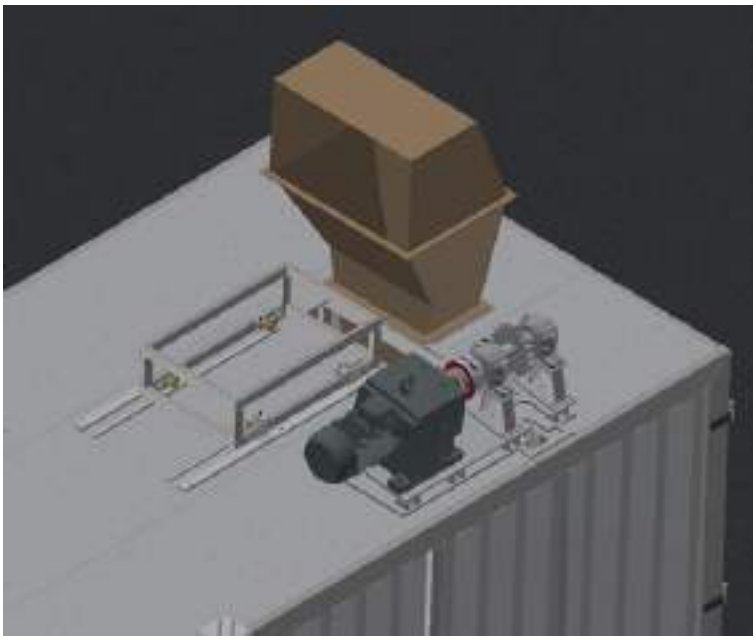


There are preinstalled rails on top base of bottom container. Separator stand will be placed on these rails. After completing the installation of gearbox, connect this stand with a rope. Lift it with Crane and place it in position on rails.

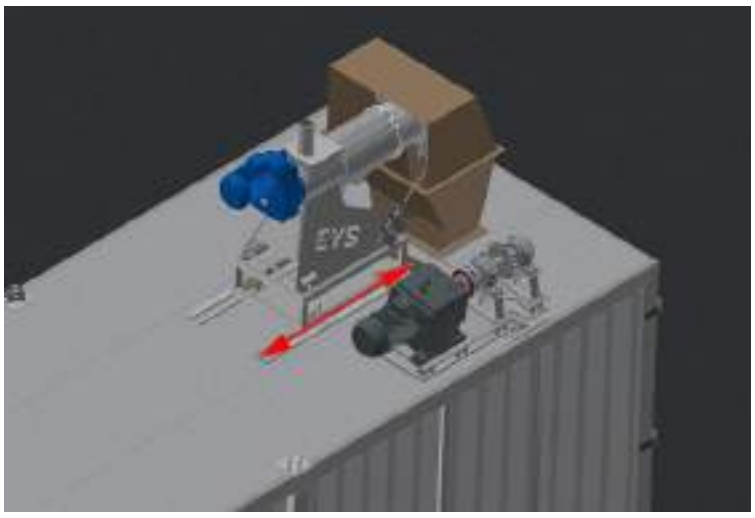


Stand can move forward and backward on these rails.

Connect separator discharge funnel with a rope and lift it with Crane. Place it on opening on the hole on bottom container. Position of funnel is shown in the image right.



Connect separator with a rope to lift it. One rope should be connected from gearbox seperation flange area and second rope should be connected around body (the area between head discharge mechanism and support legs). Separator stand can be moved on rails. Move stand back, lift separator and place it on stand. Fix separator to the stand with screws.Then move rails forward to discharge funnel and seperator head discharge will be inside funnel.

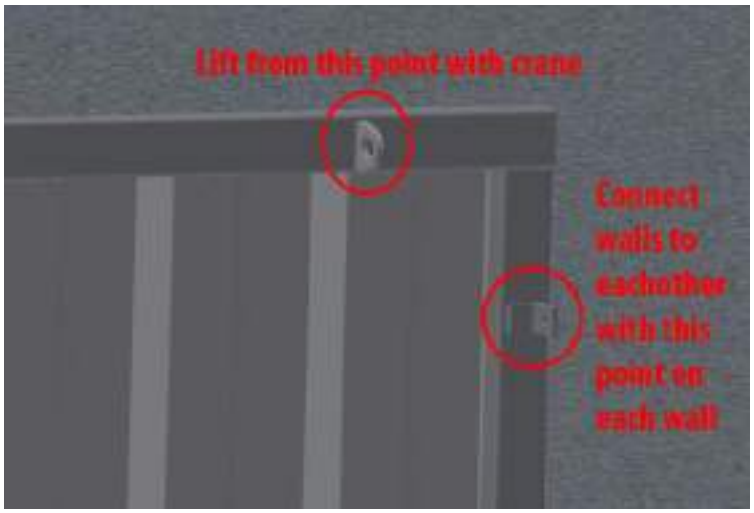


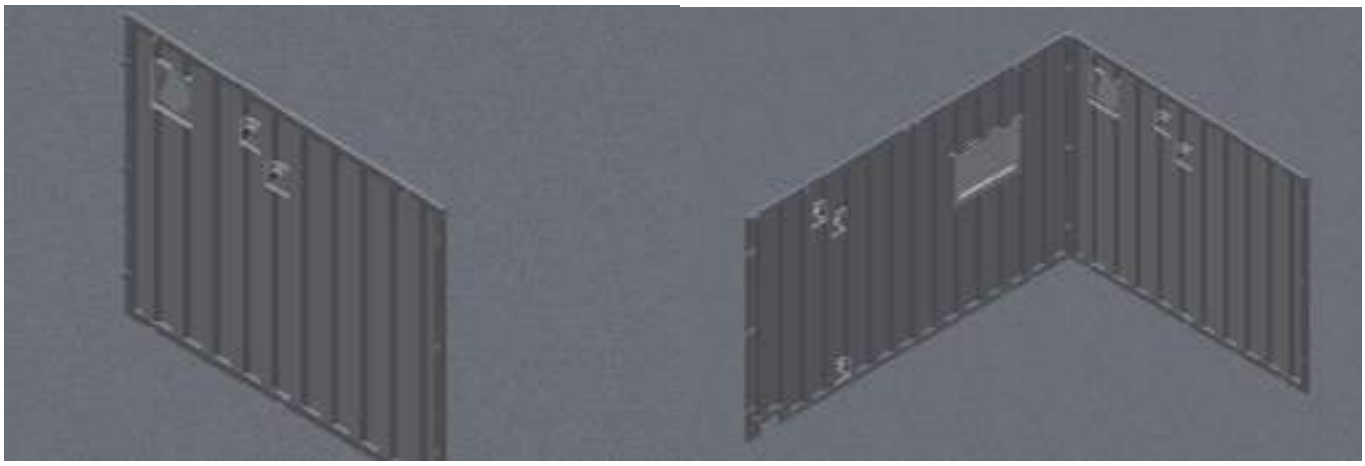
After completing separator installation, start installing staircase. Connect staircase with a rope to Crane and lift it. Hold staircase as shown in the image right and screw it to bottom container.

NOTE: Staircase can be positioned on either left side or right side of BC unit based on project.

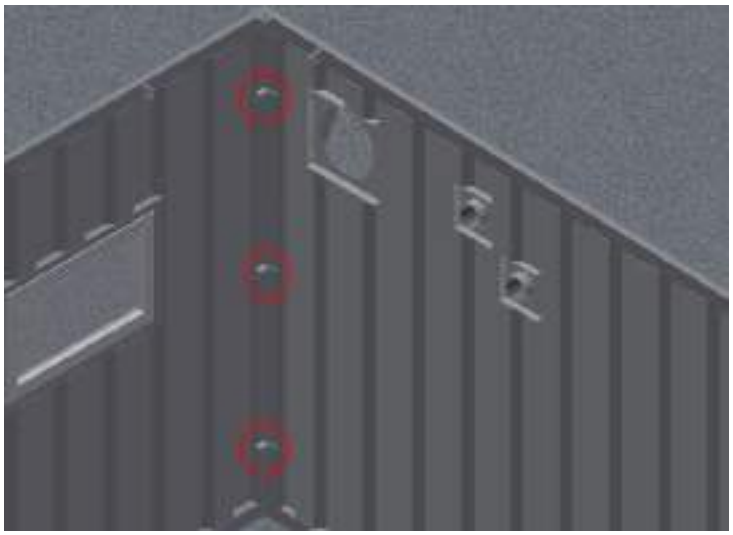
When staircase is installed proceed with top container installation for the moment. Top container will be assembled on the ground and then will be lifted, placed and fixed on top of bottom container.

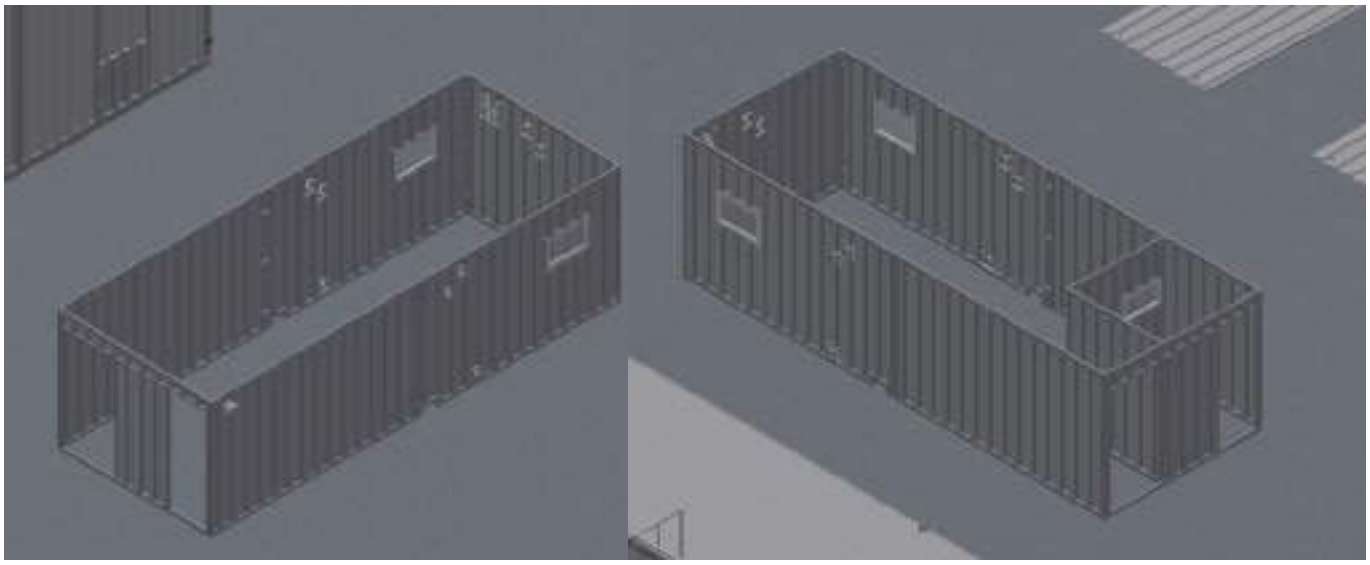
To install top container first you need to connect walls. To do so lift a wall from lifting point with crane and hold invertically on ground. While 2-4 workers hold the wall vertically, release the crane and lift second wall. Contact them 90° as shown in the below images. Then screw them.
Lifting and connection points can be seen on the image right.
After connecting two walls, don't fully tighten the screws!



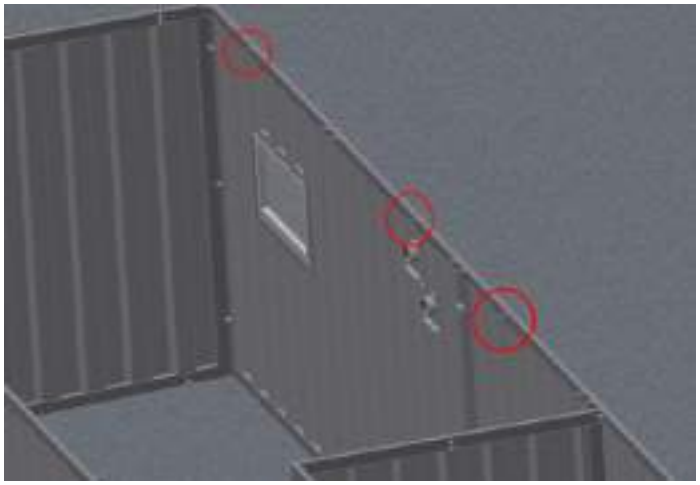


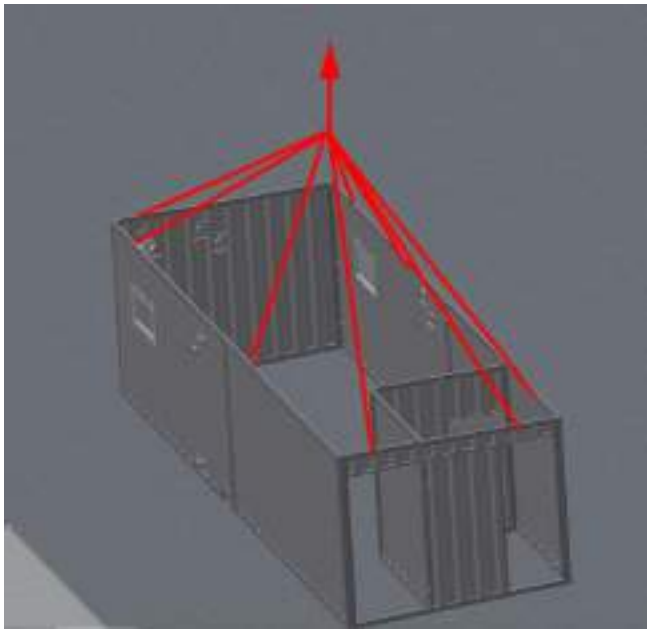
Connection points which two walls will be connected to eachother can be seen on the image right. All walls will be installed to eachother with these points.
Complete connecting all outer walls without fully tightening the screws. Final view of outer walls can be seen in the image below (left). When outer wall installation is complete start installing control panel room walls. Lift control panel room walls with crane and place it inside walls to it's position. The position can be seen in the image below (right). You can also indicate the position of control panel room based on the side of top container door location.



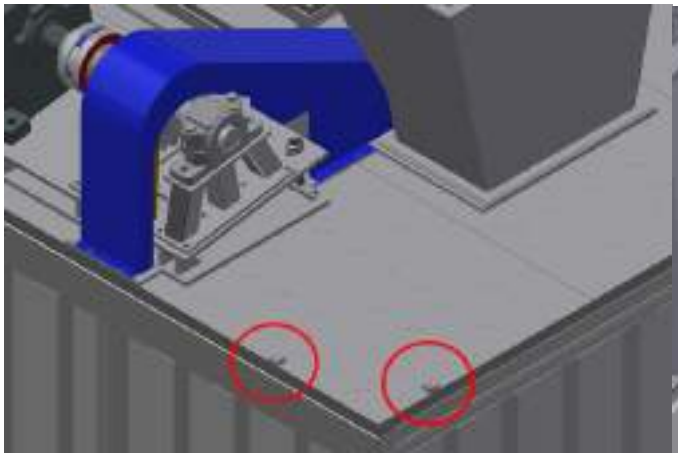


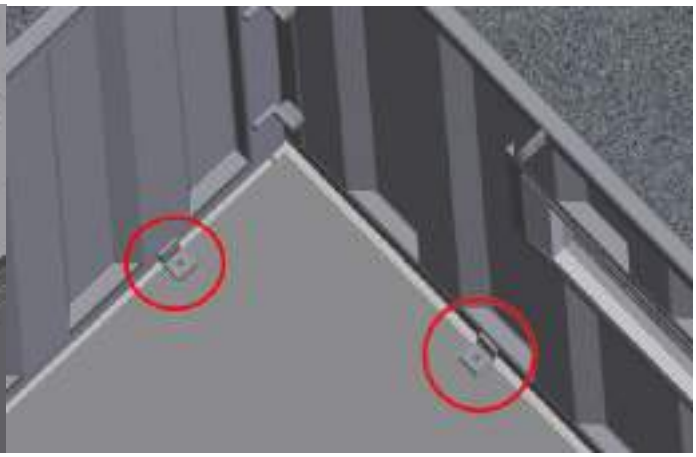
Complete connecting all the walls of top container on the ground but don’t mount the roof yet. Now lift walls from lifting points which can be seen in the image below. Connect chain to each lifting point and lift with crane. After placing top container to it’s position on bottom container, don’t disconnect chains. Lifting points can be seen in the images below.



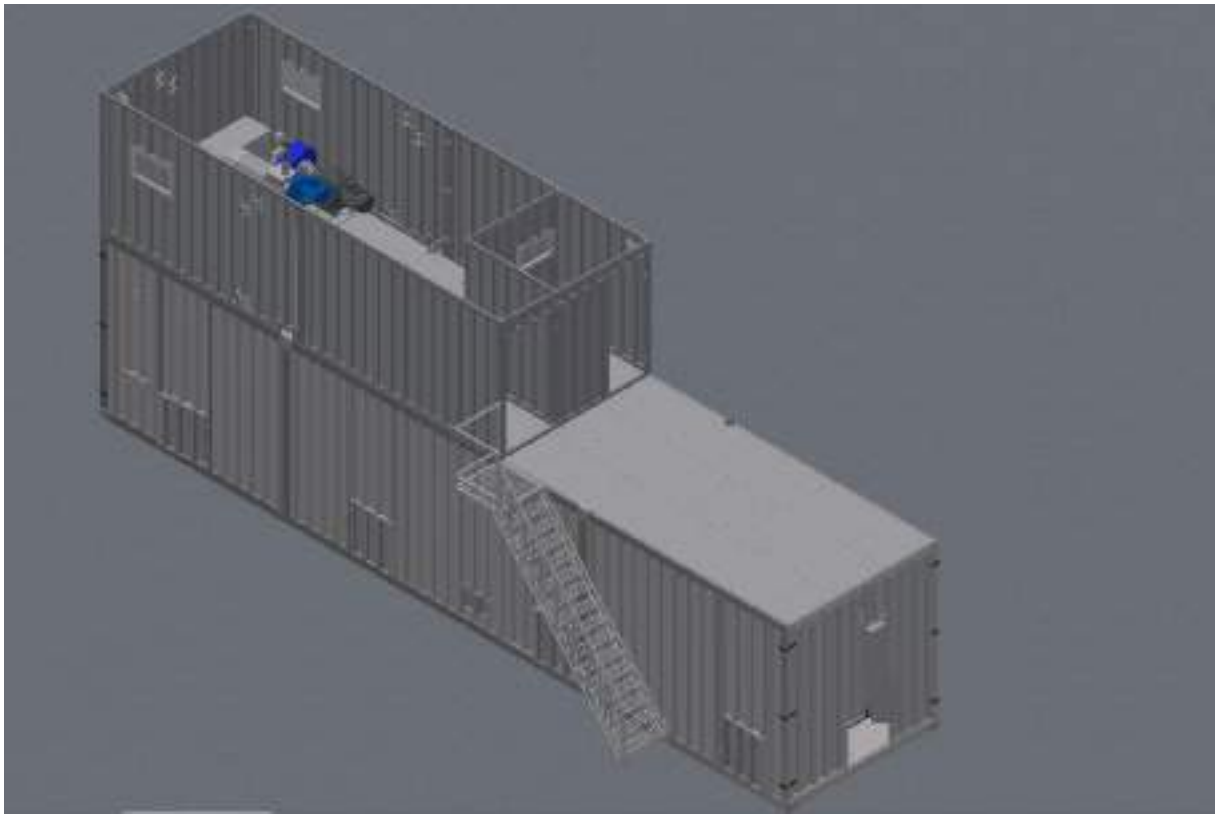


To connect top container walls with bottom container, there are connection points on walls and bottom container. These points can be seen in the images below. Screw these points to fix both containers to eachother. After fixing, tighten screws of top container walls. If you have difficulty tighening some of the bolts use crane to lift or release walls from some points. After completing tightening of screws, disconnect chains from walls.

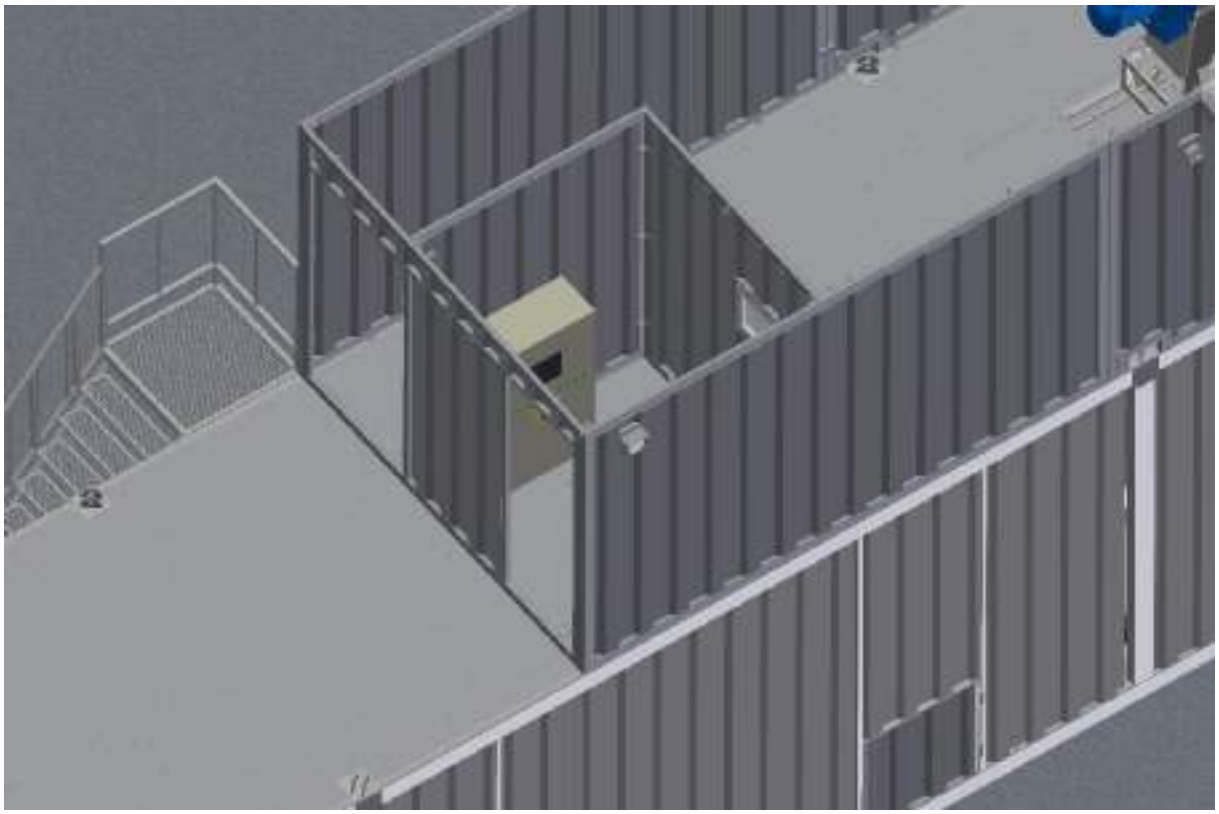




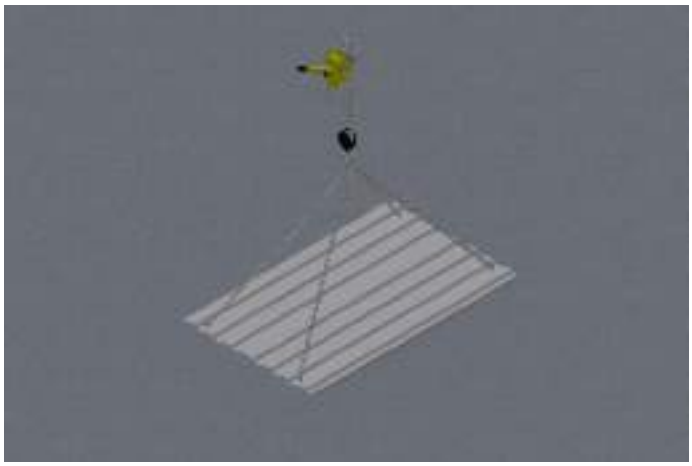
After completing everything to this point, your BC unit will look like the one in the image below.

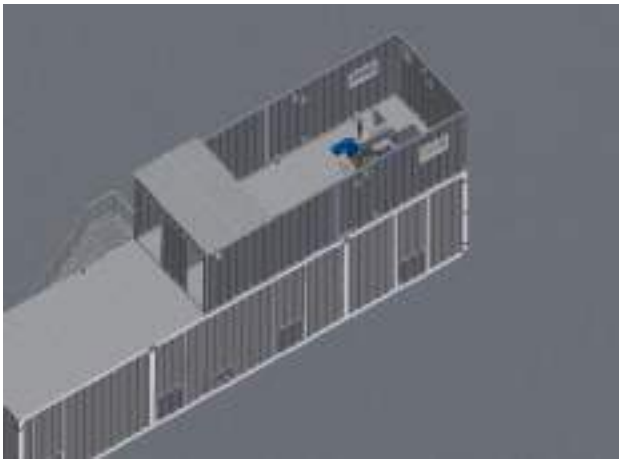


Connect ropes to control panel and lift it with crane. Place it in control panel room inside top container. There is a hole on the ground for cables. Place control panel on this hole.

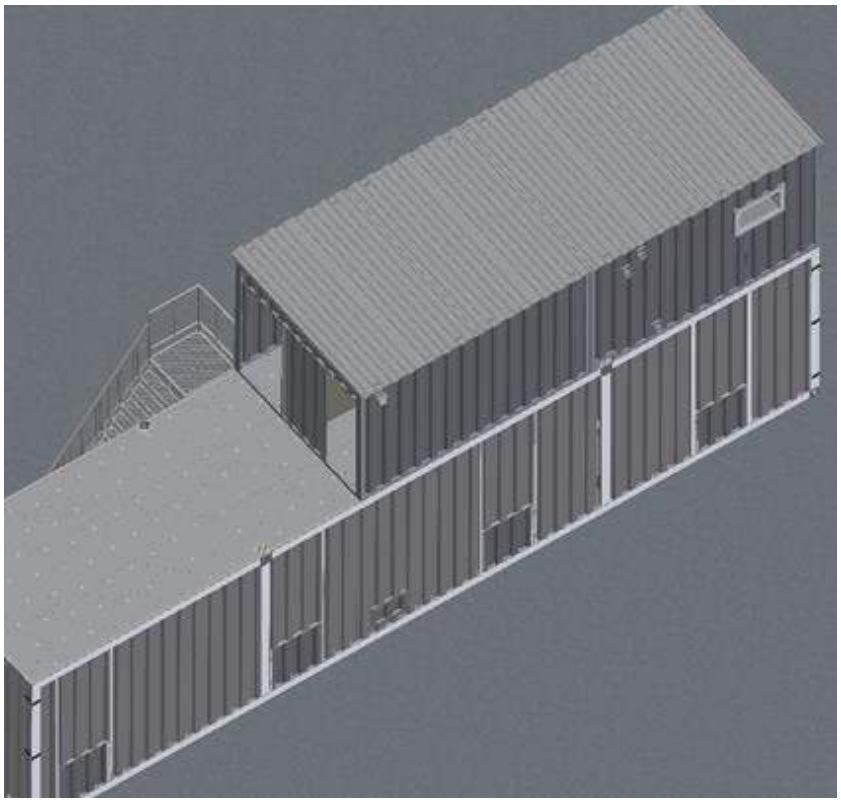


After placing control panel, start installing roof of top container. There are 4 eyebolts on each roof piece. Connect four chains to these points and lift the roof piece with crane. Place the piece on walls of top container and then connect roof piece to walls by using screws. Connection points of roof pieces are the same with wall connection points. Place every roof piece on top container and connect them.

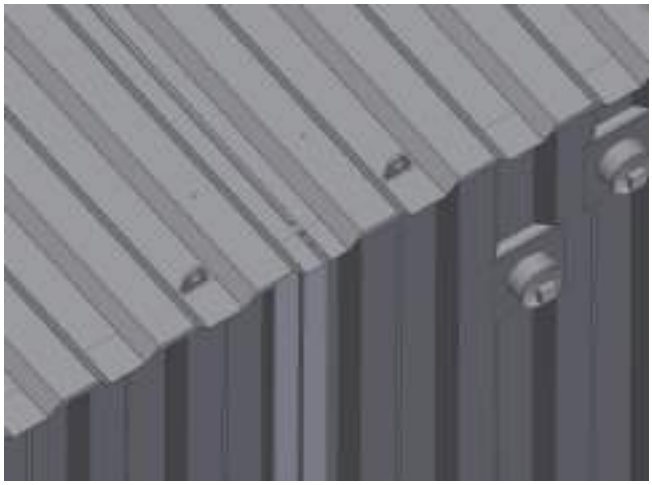


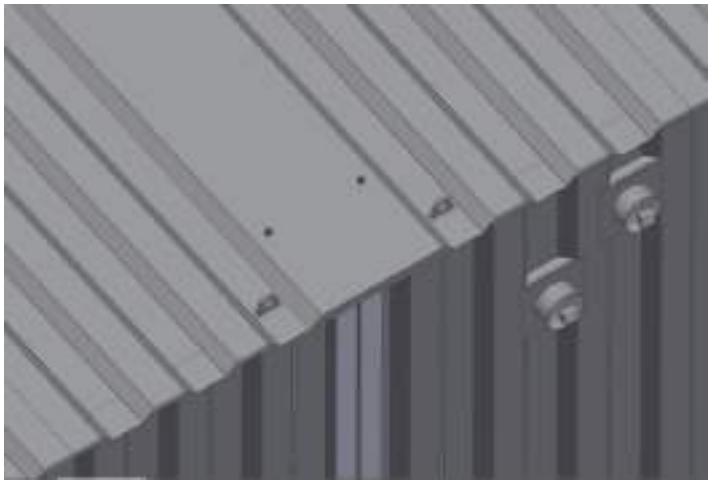


When every roof piece is connected, your BC unit will look like the image below.

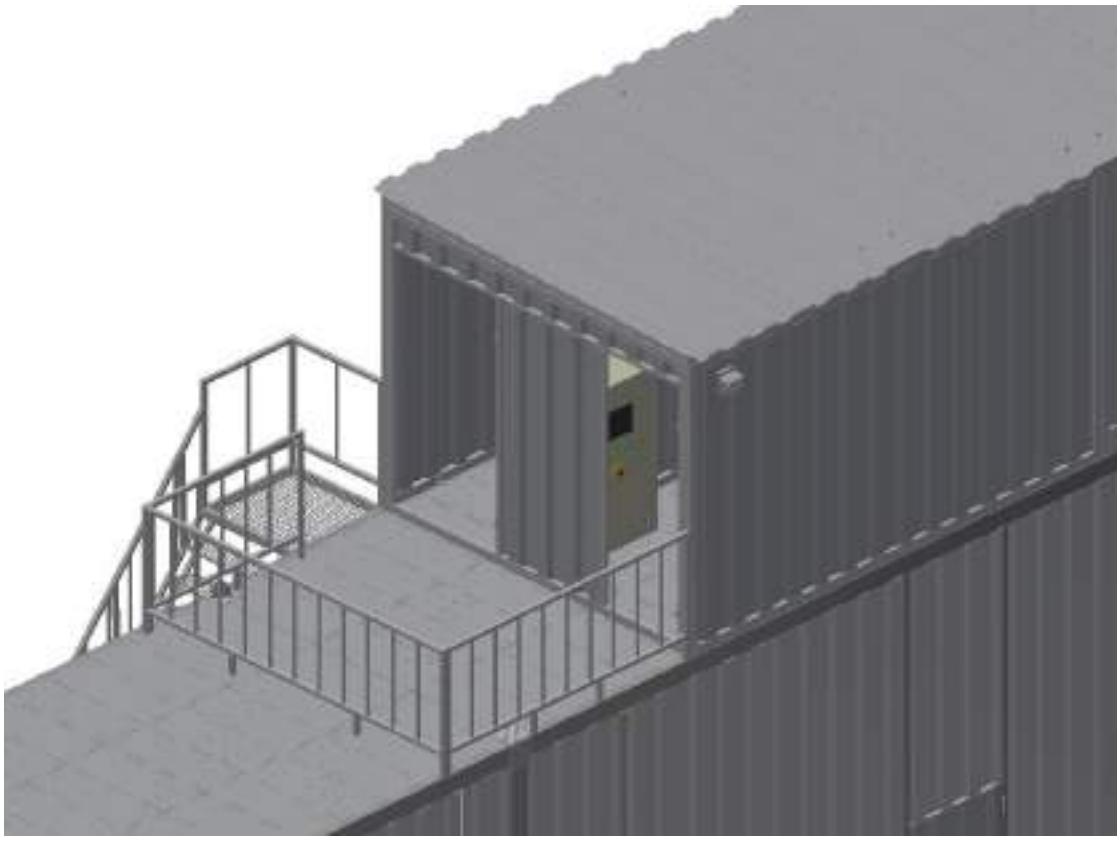


To connect two roof pieces to eachother there is a connection plate and holes on roof pieces. Connection plate and holes can be seen in the images below. Place connection plate on two roof pieces by crane as shown in below image (right) and connect them by using screws.



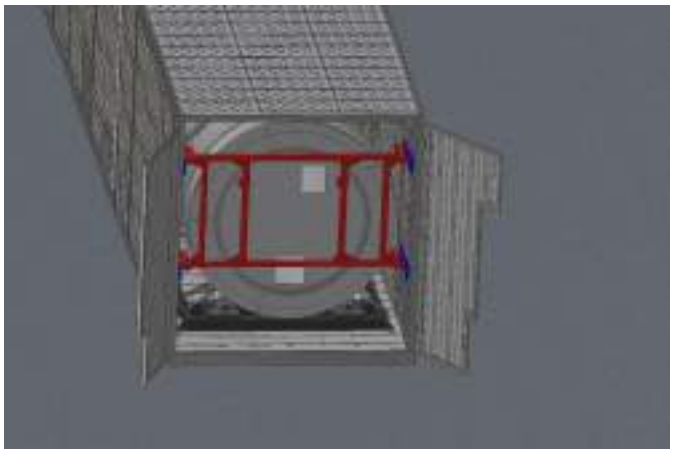


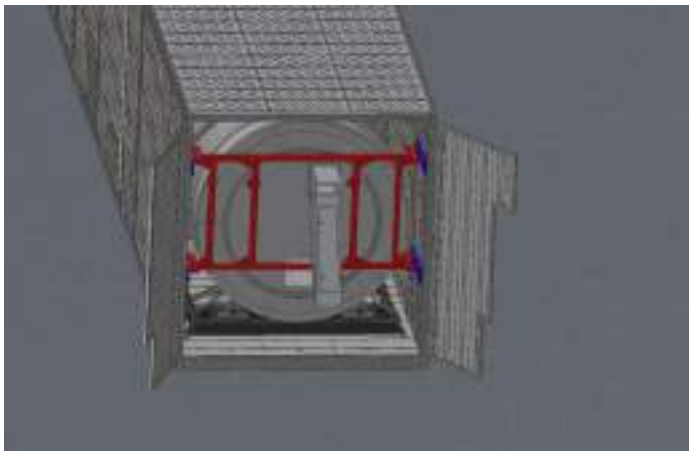
At this point top container installation is completed. An Electrician can now work inside top container to connect main's to control panel. Now proceed with handrails which will be installed on bottom container. Connect handrails with rope and lift with crane. Place it on bottom container. This handrail will be connected to both bottom container top ground and top container walls.



After screwing handrails your BC unit will look like the image above. Now connect 2 doors of top container with a rope and lift them with crane. Put them in position.

After mounting doors, top container installation will be fully completed. BC unit has a discharge chamber which can be seen in the image below (right). Connect it with rope and lift it with crane. Hold it as shown in the image below and screw it to bottom container surface.





After connecting discharge chamber, BC exit conveyor will be connected. Length and angle of conveyor is preadjusted in factory.

Firstly connect 2 ropes to conveyor near each leg connection points. Then lift and hold conveyor in the air. Connect each leg to conveyor by using screws but don't tighten the screws yet. Then connect each leg (leg amount varies based on conveyor type) with connection profiles to fix legs. After fixing legs with eachother slowly lower conveyor on the ground. Then tighten the screws between leg and conveyor. Now lift the conveyor again by attaching a rpoe and move it in it's position which is under BC discharge chamber.

WARNING!	Weights of conveyors are available on package label and in user manuals. If you will lift conveyors by a forklift, choose a forklift depending on conveyor weight!