



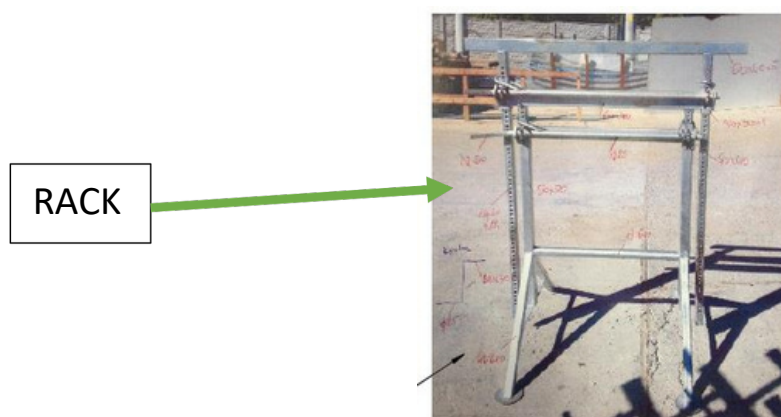
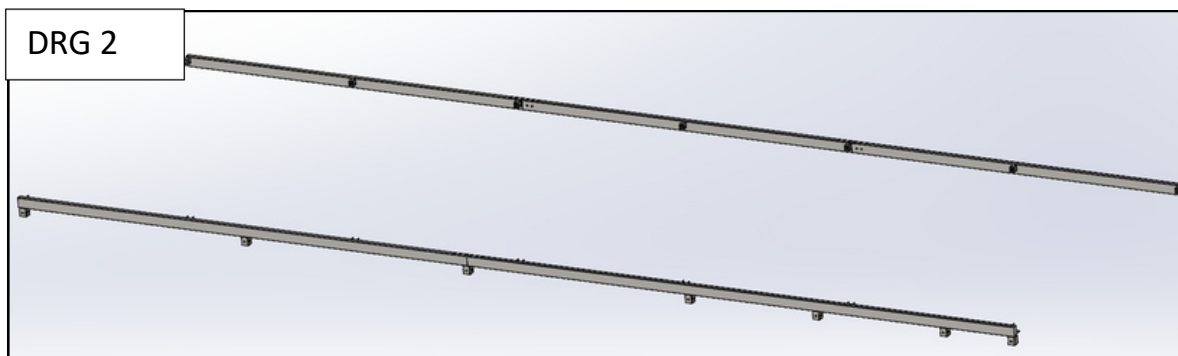
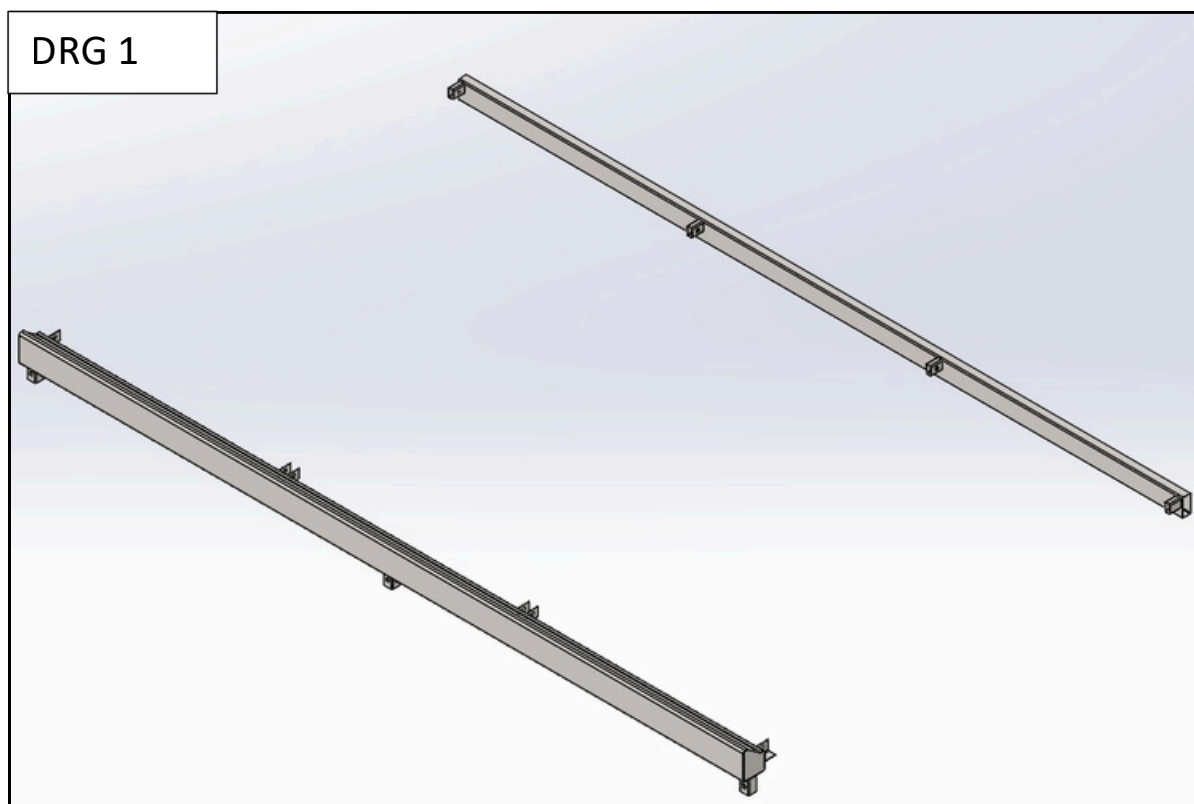
PITTMAN OSLO CYCLE SHELTER

SHELTER ASSEMBLY INSTRUCTIONS & PRACTICAL STEPS

STEP 1

Place racks on a levelled ground. Place on the racks, depending on a model, an intake gutter and a longitudinal beam (drawing 1) or two longitudinal beams (drawing 2).

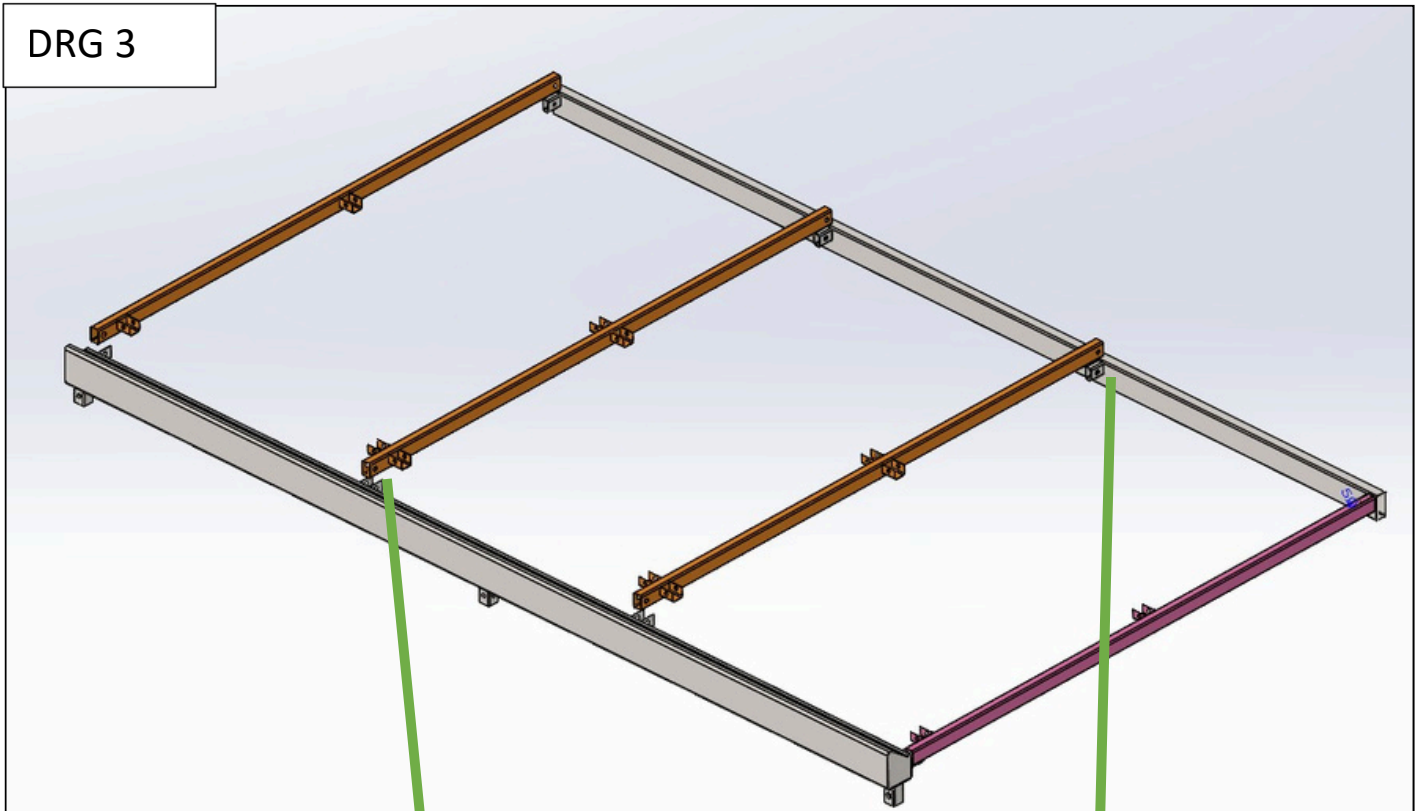
Move the beams on the racks in a way that will make their spacing the same as it is in the drawing.



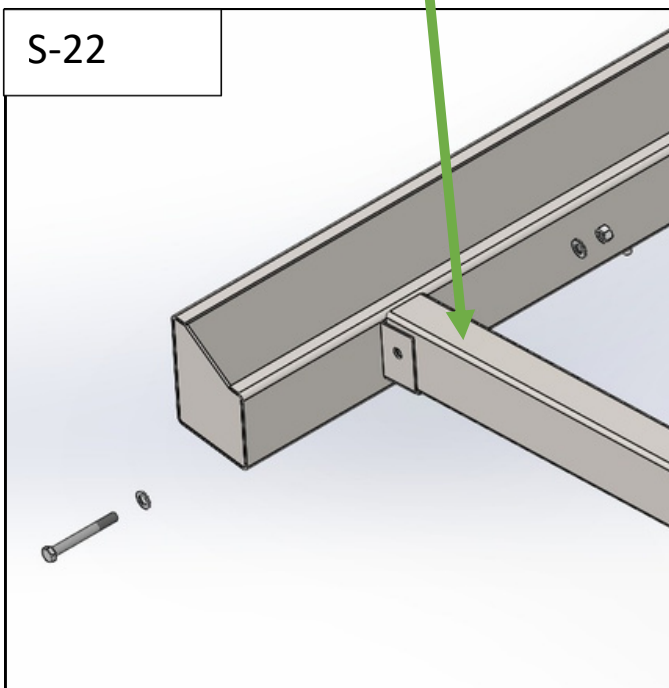
STEP 2 – INTGUTTER + LONGITUDINAL BEAM

Next insert rafters between the intgutter (handle S-22) and the longitudinal beams (handles S-21), when the rafters are in the handles, screw them tightly with M12 screws with a set of washers and nuts.

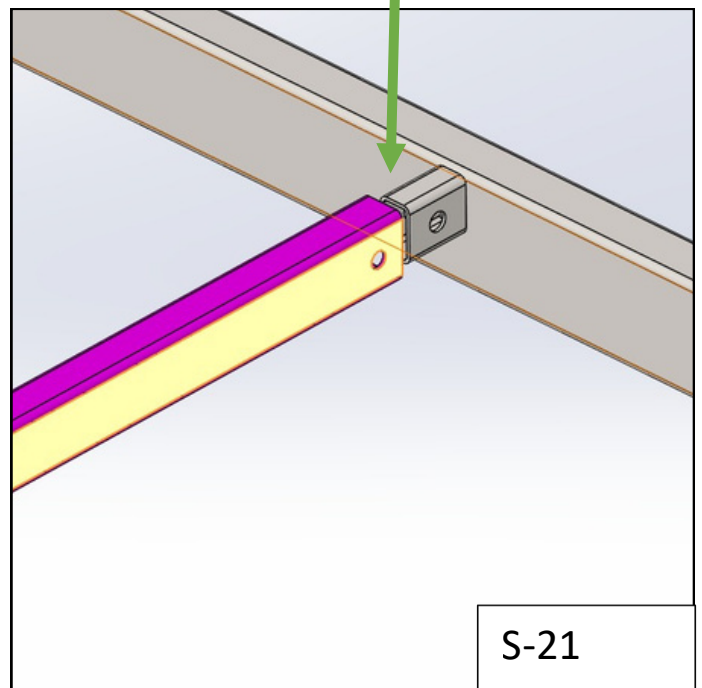
DRG 3



S-22

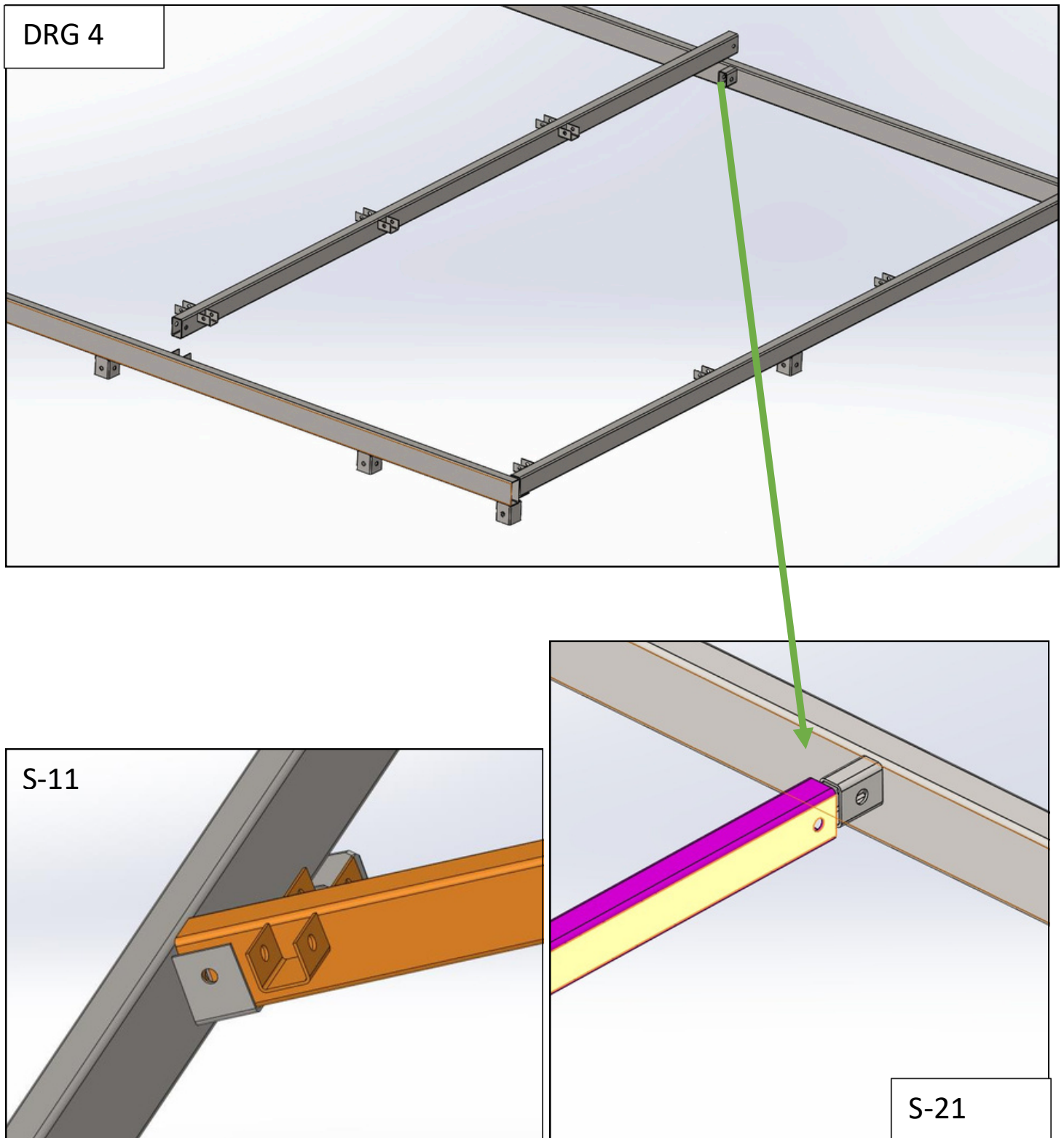


S-21



STEP 2 – LONGITUDINAL BEAMS

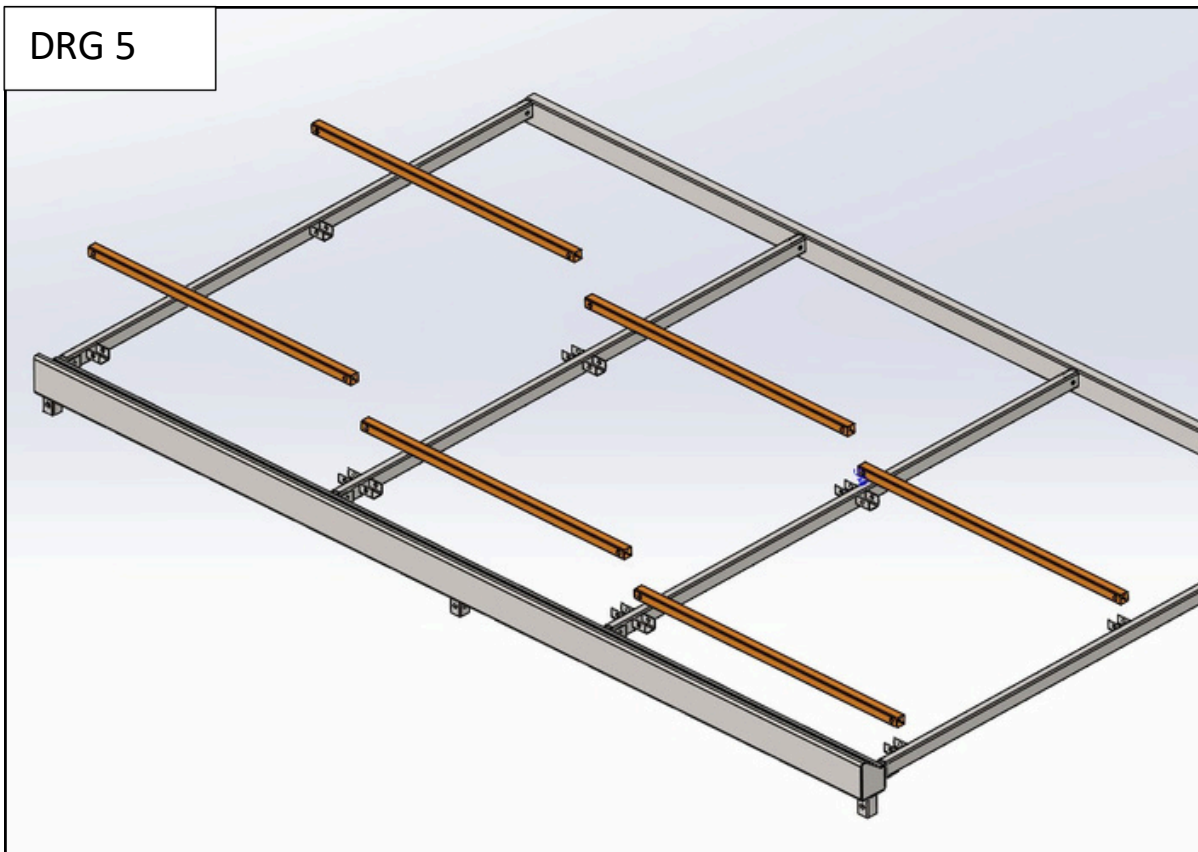
Insert the rafters between two longitudinal beams. On one side there is handle S-21, while on the other S-11. Once the rafters are adjusted, they should be screwed tightly to the longitudinal beams with a set of M12 screws.



STEP 3 – PURLINS

Next, independently from previous option, insert purlins between the rafters (handles S-12) and screw them tightly with a set of screws.

DRG 5



After screwing all elements together, the roof construction should look like in the drawing below:

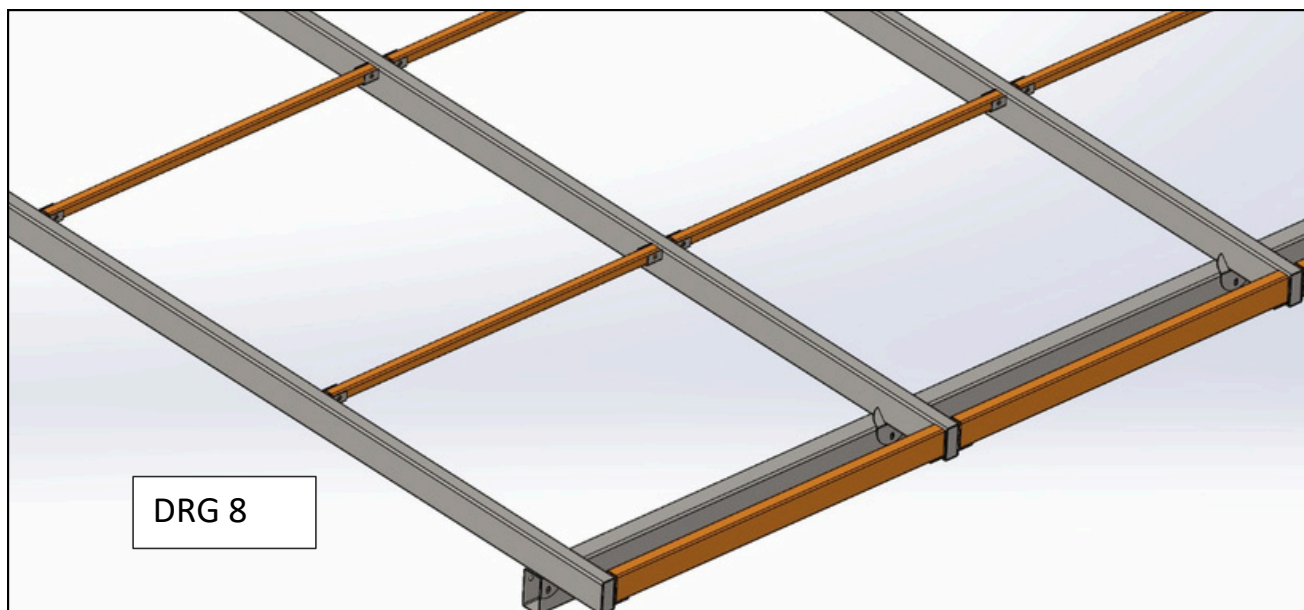
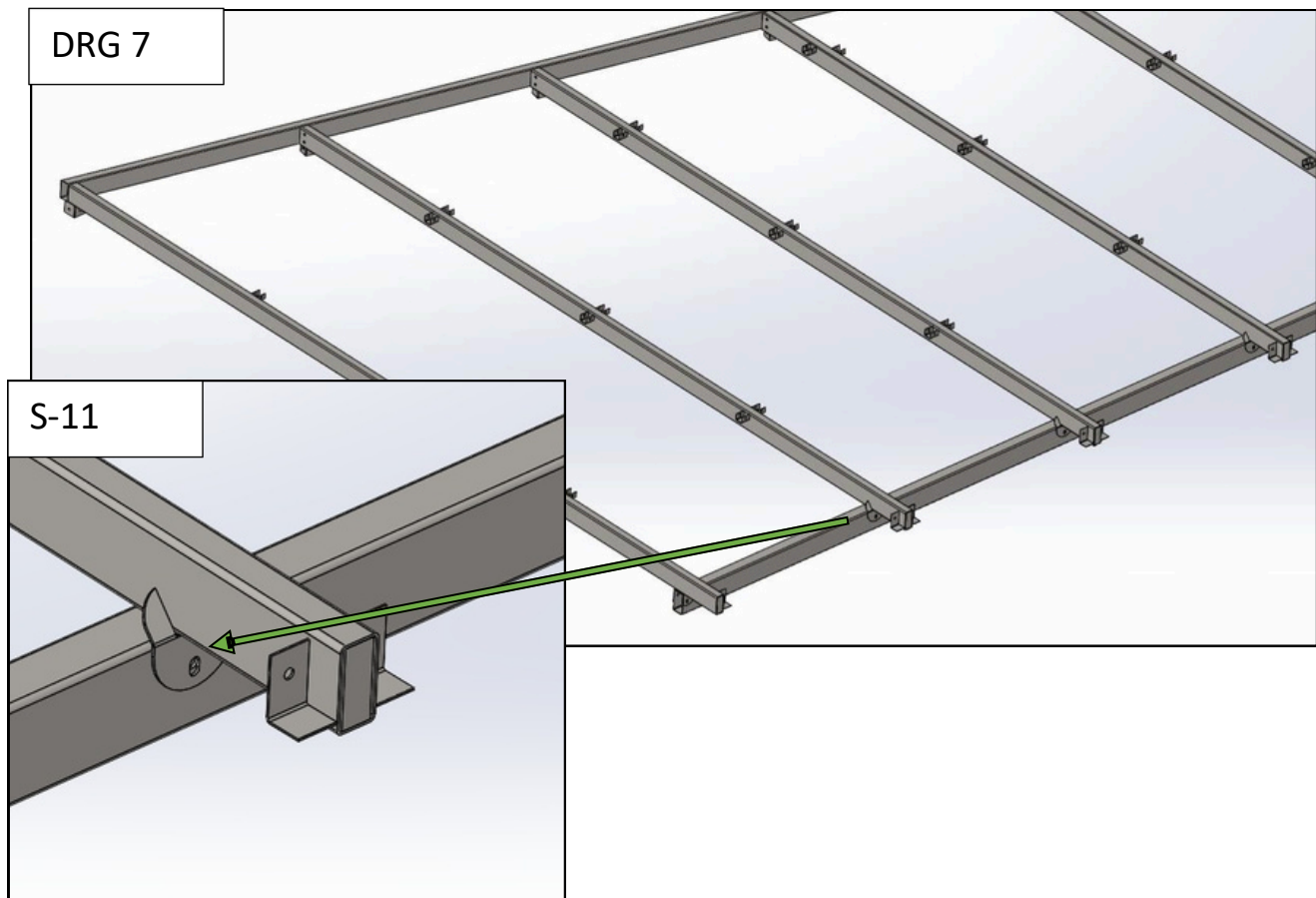
DRG 6



STEP 2/3 – LONGITUDINAL BEAMS – option S11

After adjustment of the longitudinal beams, place a rafter against the beam with the handle S-21, and the other ending place against the other longitudinal beam. Set it in a way that the handle S-11 covers the hole in the longitudinal beam. Next screw everything tightly.

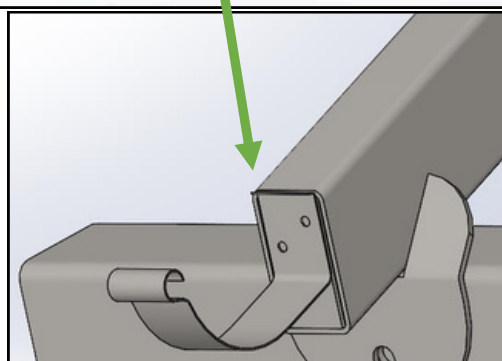
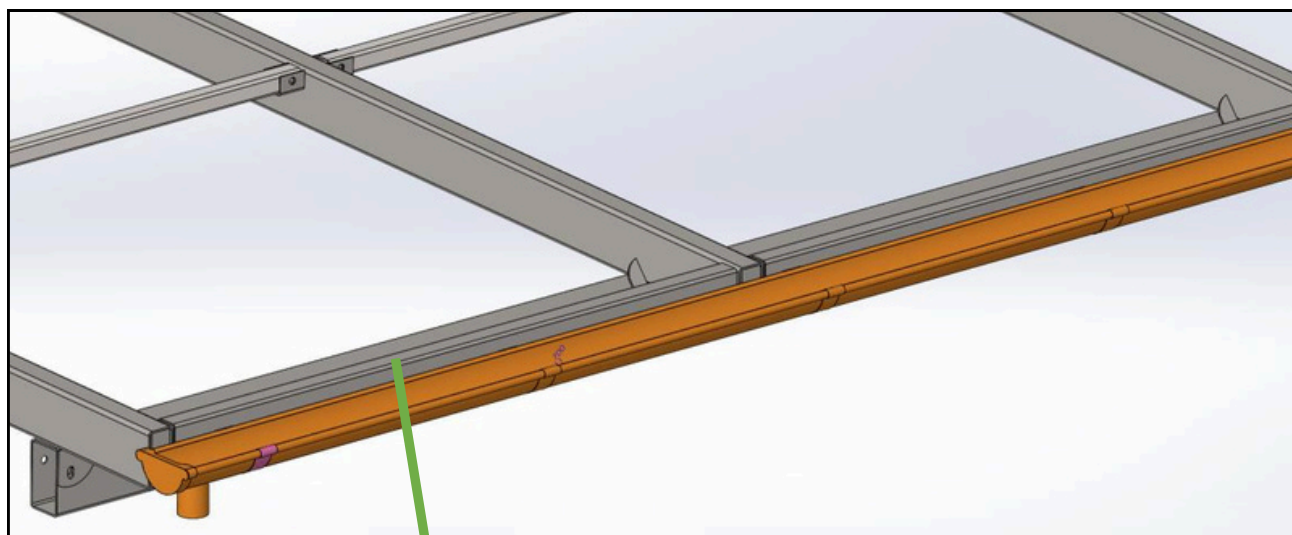
Next insert the purlins between the rafters and screw them tightly. After screwing these parts, everything should look like in the drawing No. 8.



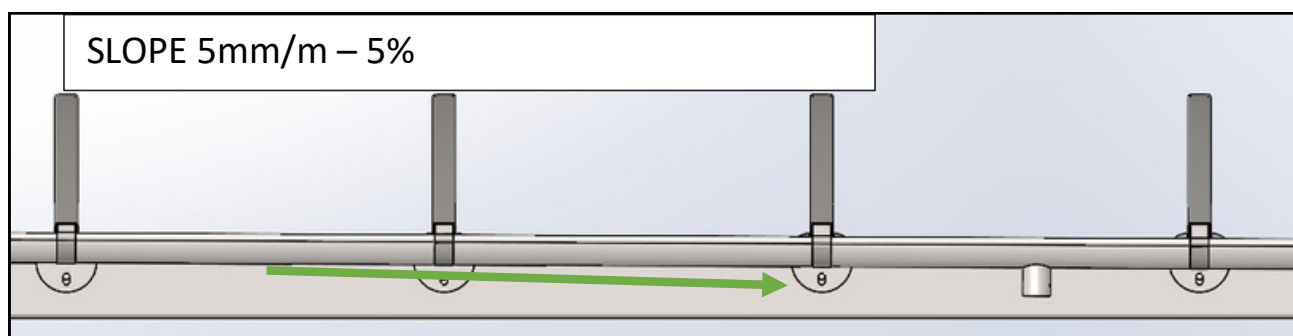
STEP 4 – SIBA (optional)

When a shelter is fitted with the “SIBA” draining system, it must be fastened to the purlins, eventually to the longitudinal beam, depending on shelter’s option.

Screw included handles to the beams using self-drilling screws. Place the handles in a way that creates a 5mm/m (5%) slope on the gutter. Next insert the SIBA gutter into the handles and put closers at the gutter’s ends. When a gutter consists of few parts, these must be joined together with appropriate joints.



HANDLE



SLOPE 5mm/m – 5%

CLOSER

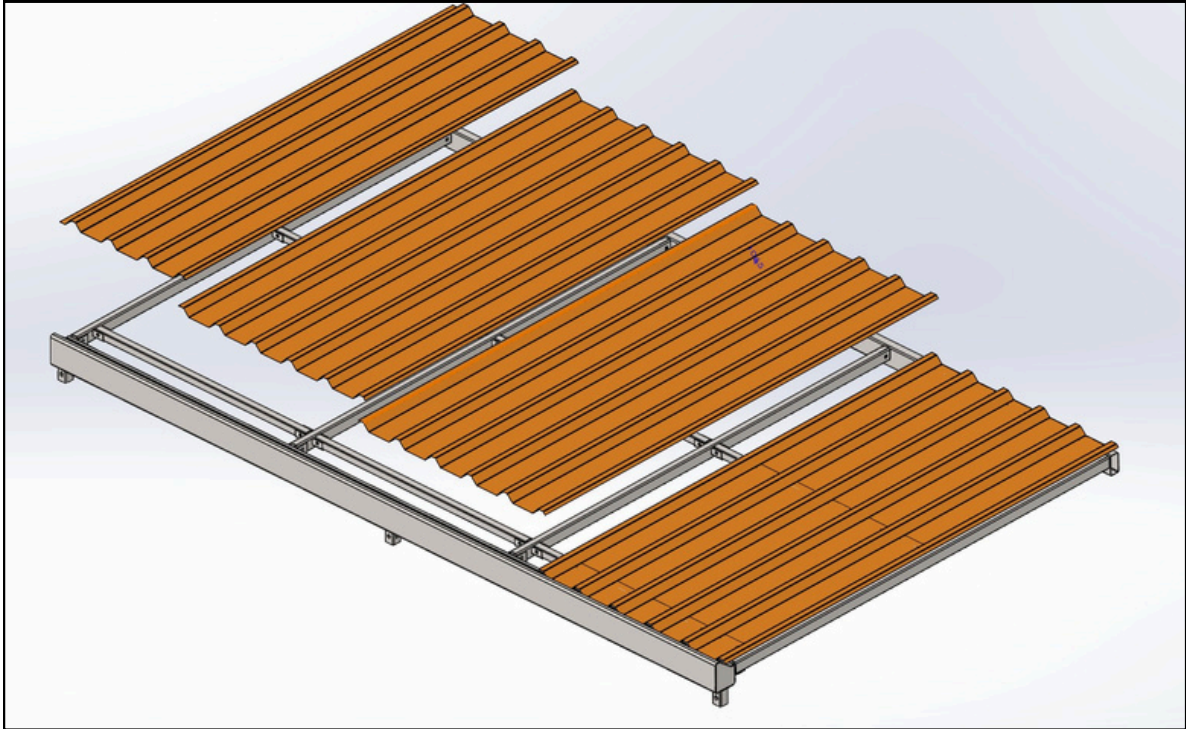


JOINT



STEP 5

Next place trapezoidal sheet metals against the rafters and the purlins and screw them with self-drilling screws, according to the "SHEET METALS INSTALLATION INSTRUCTIONS".



STEP 6

When entire construction of the roof is screwed together, it must be elevated on the racks. The minimum height of elevation shall be no lower than „height under longitudinal beam/intgutter + 150 mm“, in a way that allows to freely place the posts in their respective positions.

If the posts will be concreted, they should be placed in holes destined for foundations (the holes should be previously prepared according to the project), and then secured from moving.

If the posts are fitted with feet / regulated feet, the feet should be placed on indicated spots according to the project and then the posts must be secured from moving. When there are regulated feet, the posts should be installed on the feet and secured from moving as well.

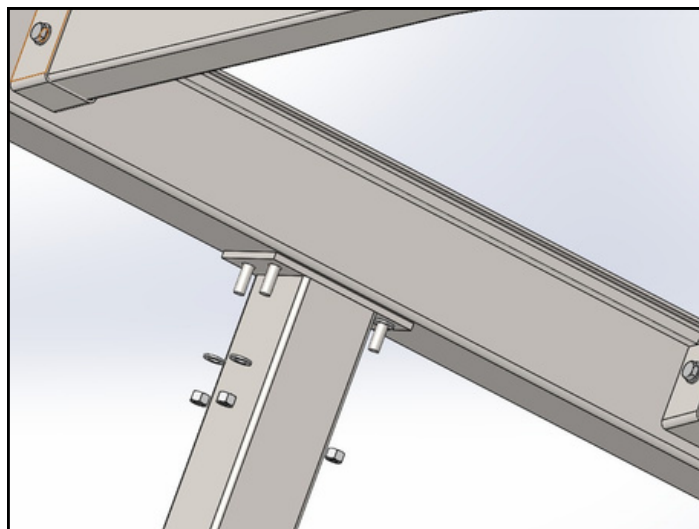
Next slowly lower the construction of the roof on the posts, set a proper height and tentatively screw the posts with the beams. When everything fits and is properly located, secure the entire construction from moving, screw tightly the screws between the posts and the beams, then do the same with the anchors at the posts' feet or pour concrete into the foundations.

If additionally the shelter has wall infills, these should be installed according to the installation instructions of wall infills, before pouring the foundations.

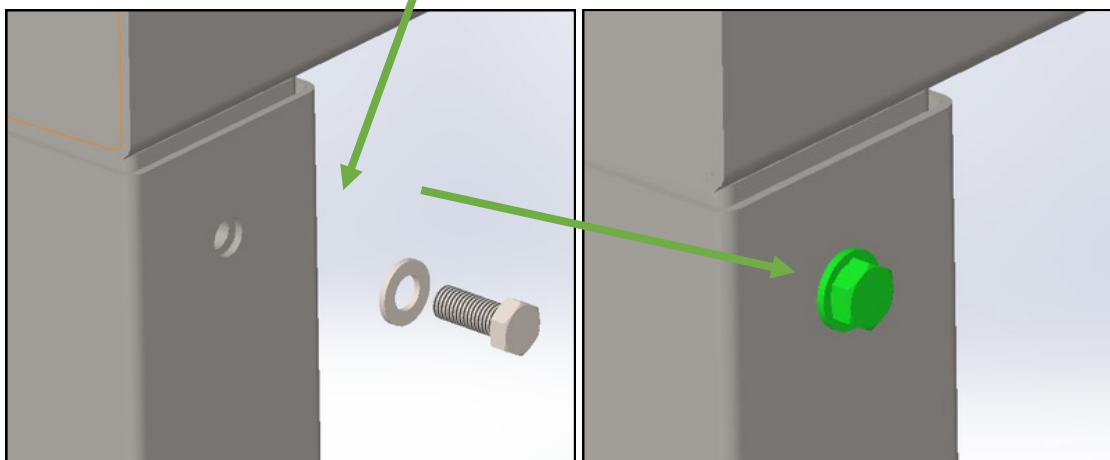
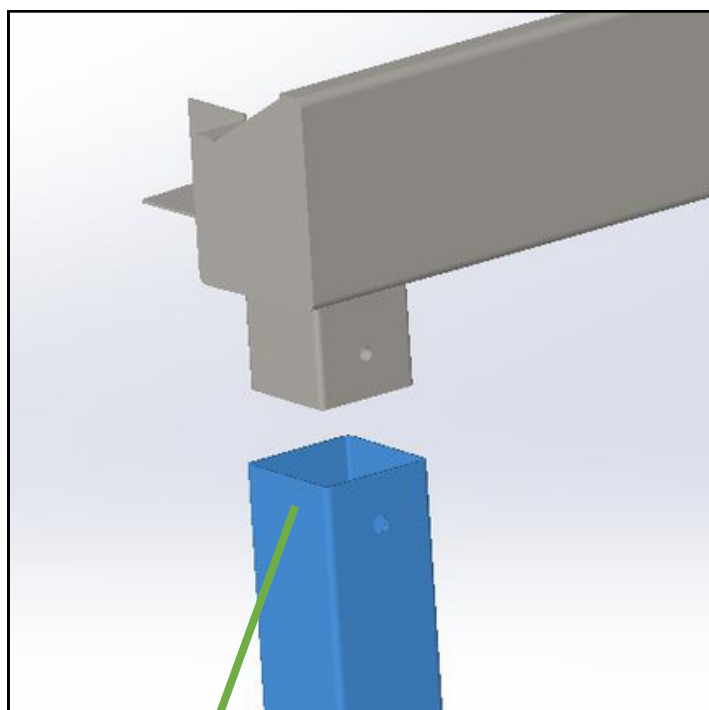
Security measures protecting the construction can be removed only when the foundations have proper hardness, according to guidelines applicable to the chosen mortar.

Below are examples of joints between posts and beams:

1. Joint of posts with an intgutter through a metal sheet – pins M12 stick out from the intgutter. The post should be screwed tightly through the metal sheet using the set: washer + nut M12 for each pin.

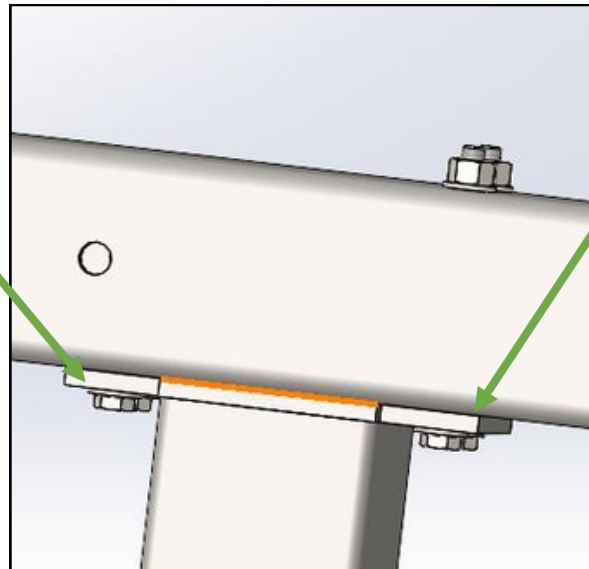


2. Joint of posts with intgutters by so-called “egg”



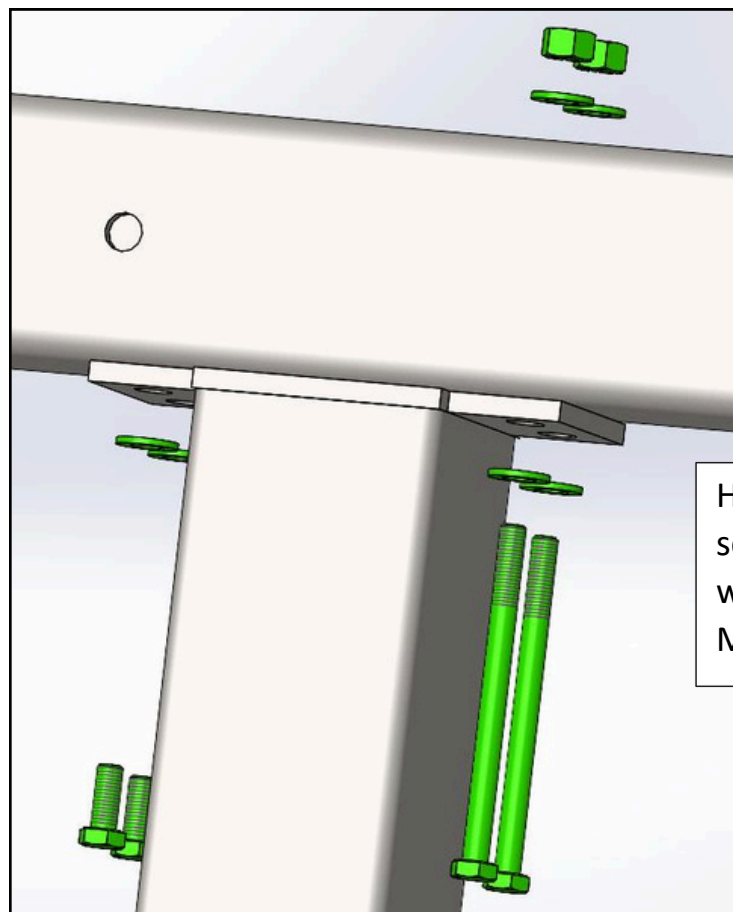
3. Joint of a longitudinal beam through a metalsheet – in the longitudinal beam there are made proper holes $\varnothing 15$ or M12 – when there are holes $\varnothing 15$, it is required to screw the sheet with the set: screw M12 + 2x washer M12 + nut M12, whereas there are holes M12 in the longitudinal beam, it is required to screw inscrews M12x30 + washer M12.

Blind joint – screw thread M12 in the beam



Hole joint – holes $\varnothing 15$ in the beam

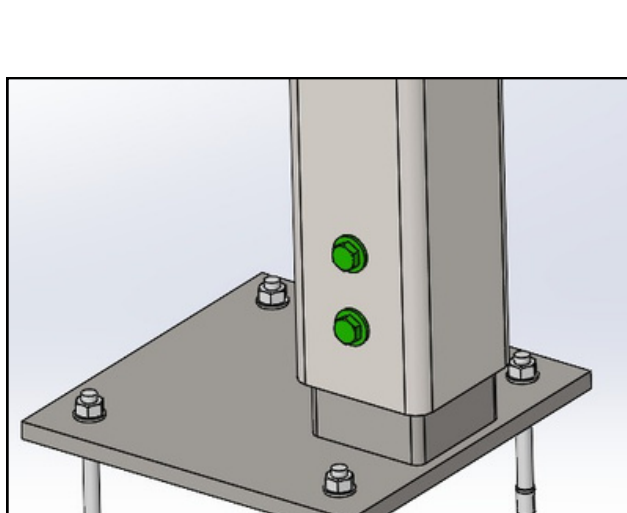
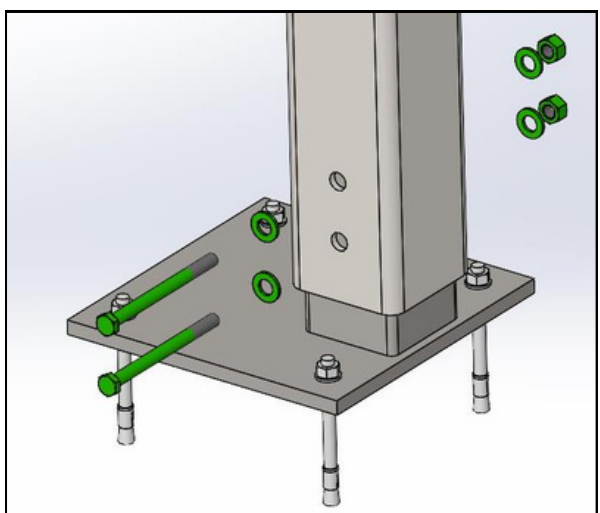
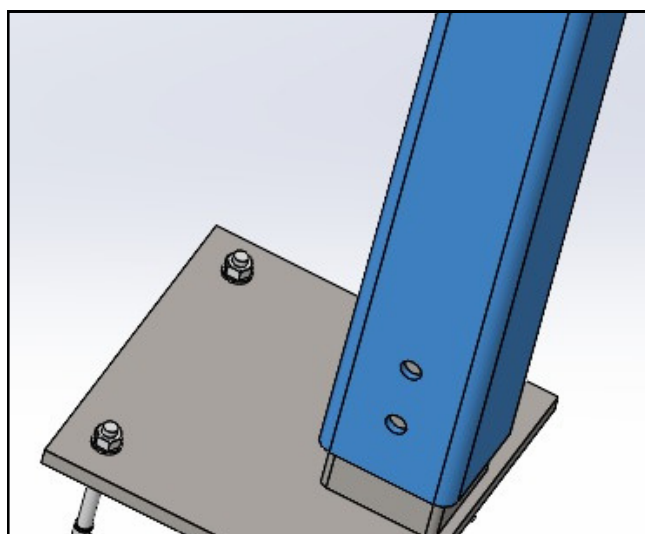
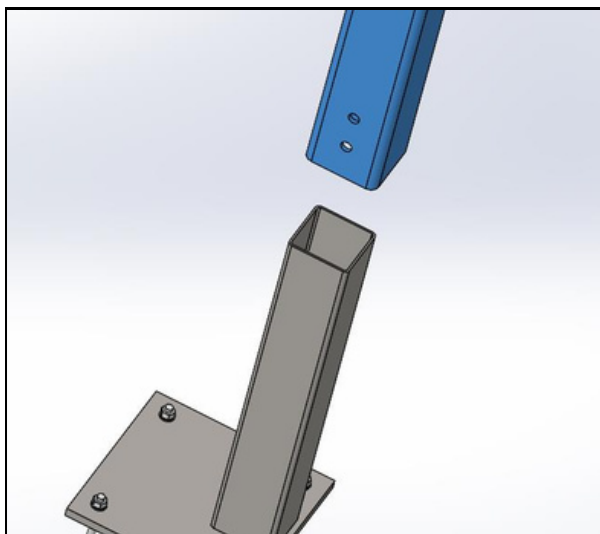
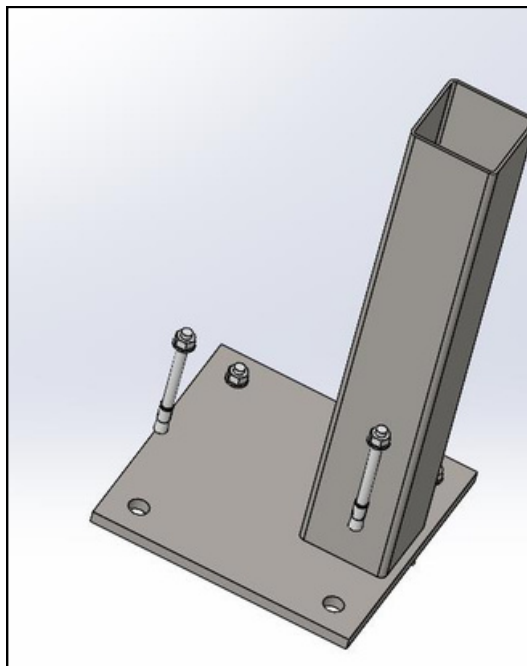
Blind joint – set of screw M12 + washer M12



Hole joint – set of screw M12 + 2x washer M12 + nut M12

4. Joint of a longitudinal beam by so-called „egg” – assembly similar as the point 2.
5. Installation of posts with mounting feet – drill holes in the base according to the project, place the posts accordingly in their positions and insert anchors into the holes through the feet. Next screw the anchors tightly.

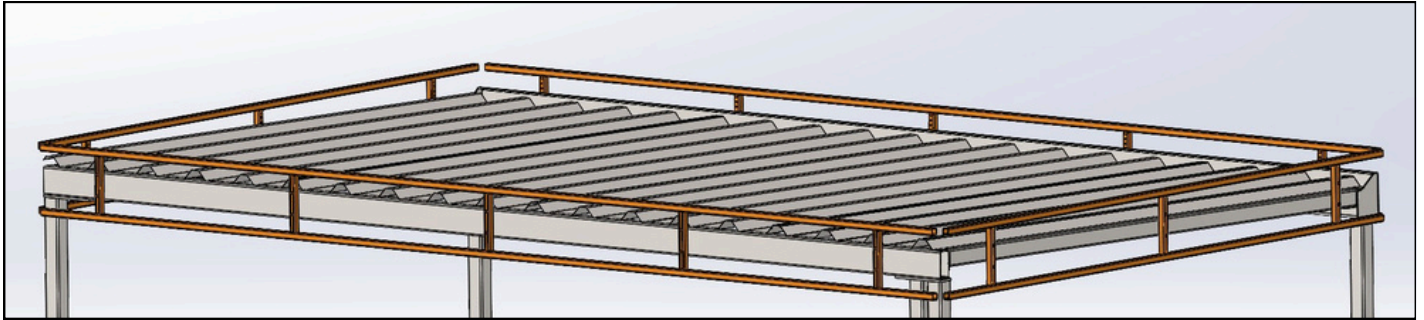
6. Installation of posts with regulated mounting feet – drill holes in the base according to the project, place the posts accordingly in their positions, then screw them tightly with the anchors to the base. Put the posts onto the feet and then set the posts on a proper level. When the posts are levelled properly, drill holes in each foot through holes in the posts, and next screw tightly the post with the foot.



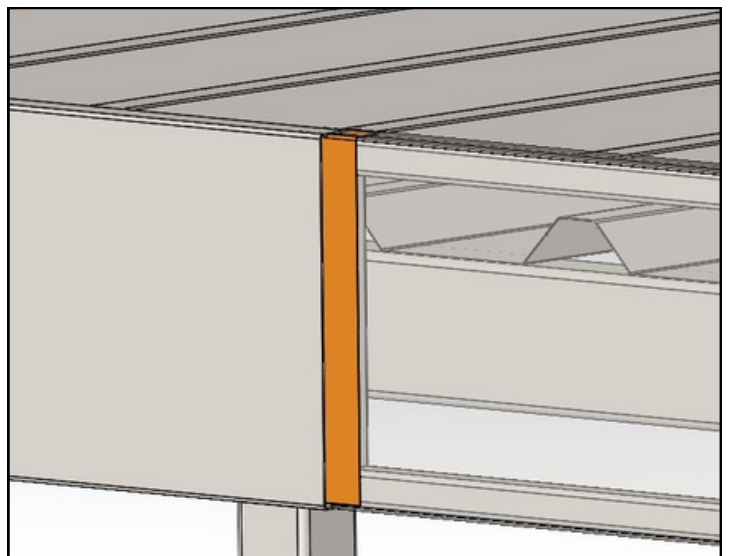
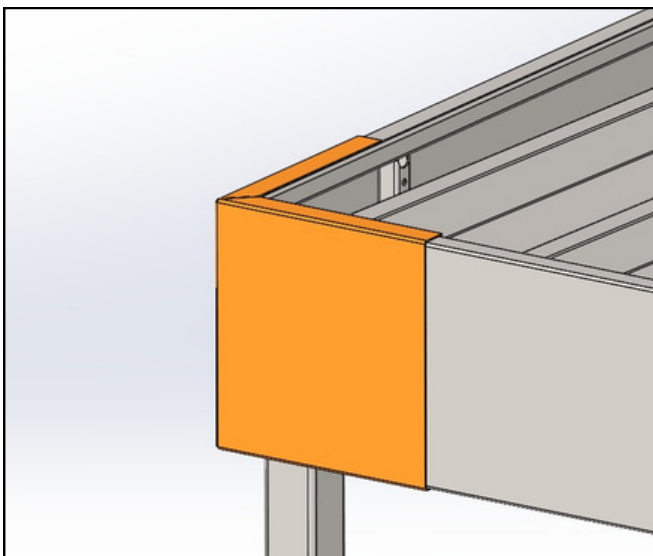
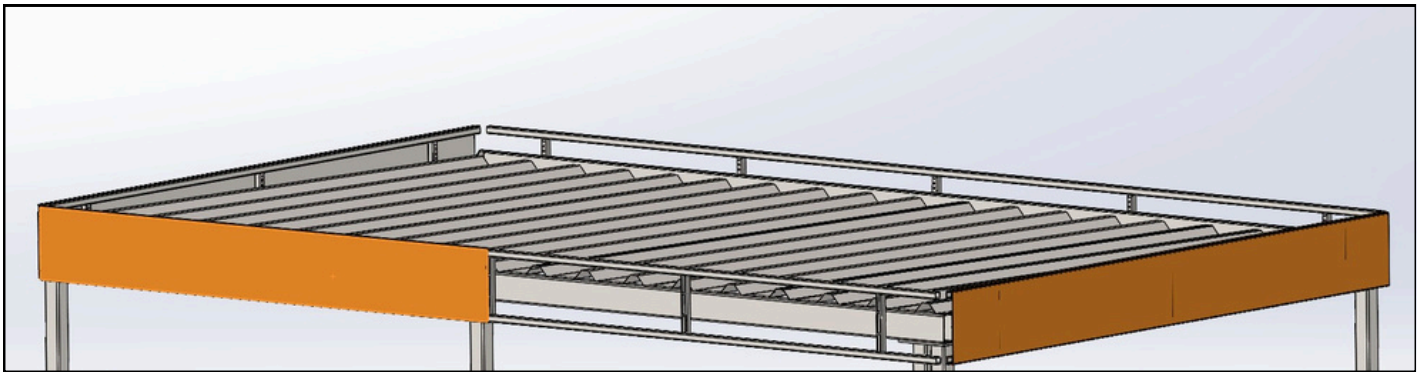
STEP 7 - ATTIC

After the construction with the posts is set and screwed it is possible to install the attic.

First use self-drilling screws to join the attic's frames with the longitudinal beams, rafters and the intgutter. Set the frame according to the dimensions in the picture.



After the frames are screwed, it is required to install metal sheets and corners on them. If on any wall there is more than one attic's metal sheet, a joint has to be used – place the joint under the attic's sheet. Conventionally, we screw the sheets only from the top, but sometimes in connection points of 2 sheets, or of a sheet with a corner, an extra self-drilling screw should be screwed (only for aesthetic reasons).



Practical Steps

Step 1: Remove the pavement



Step 2: Dig hole under the pavement (between 90 to 125 cm)



Step 3: Assemble the roof on jacks



Step 4: Prepare post for concreting



Step 5: Concreting



Step 6: After concreting is done assembly the paving again



Step 7: Start assmebling cladding walls

