

AQUACOMET

feel the quality



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2 - Marking the layout on the ground

Please find the required enclosure installation plan enclosed.

Marking the layout on the ground

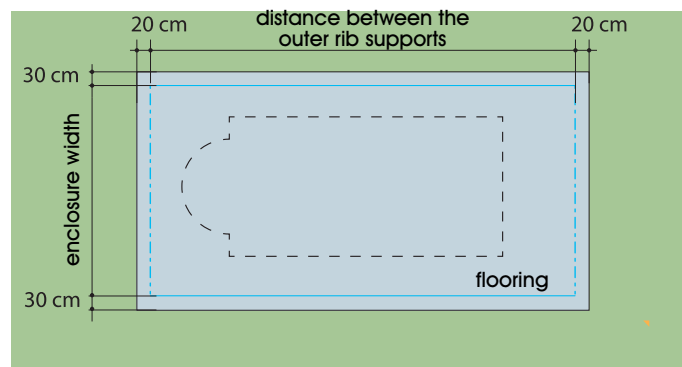
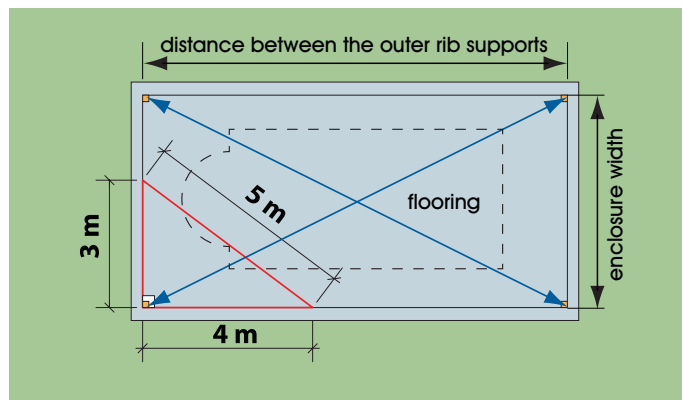
The first step is to decide how the enclosure should be placed. It can be placed parallel or perpendicular to either the house or the pool, or may also be placed independently of these. The next step is to mark the spots of the mounting brackets that will hold the enclosure's arched profiles.

Please follow these instructions:

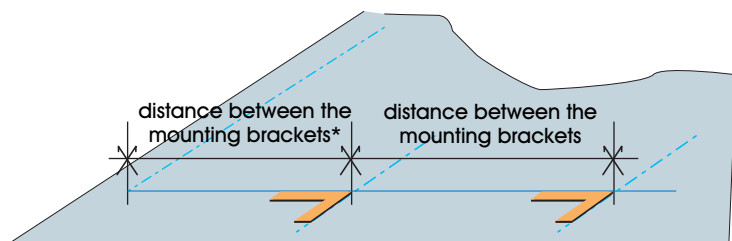
Measure an area of 3 x 4 x 5 m with a tight rope as shown in the illustration. Make sure that it is a perfect rectangle and double check if the legs are at right angles.

Please note: The pavement must be at least 30-30cm wider and 20-20cm longer than the enclosure (on each side) in order to allow enough room for the proper installation of the mounting brackets.

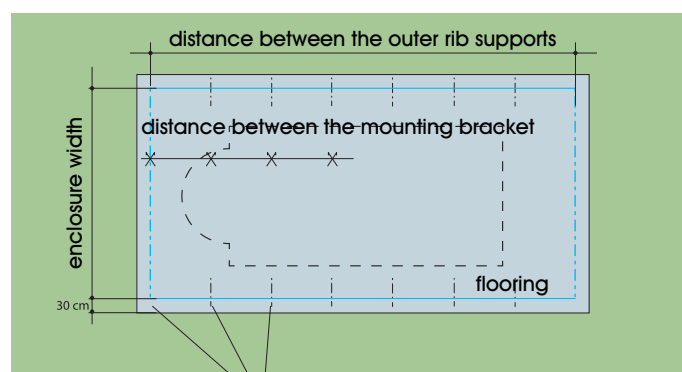
Mark the spots for the mounting brackets according to the layout plan. To measure the intersections, use a quadrant.



minimum flooring dimensions



* distance between the mounting brackets
see the attached placement plan



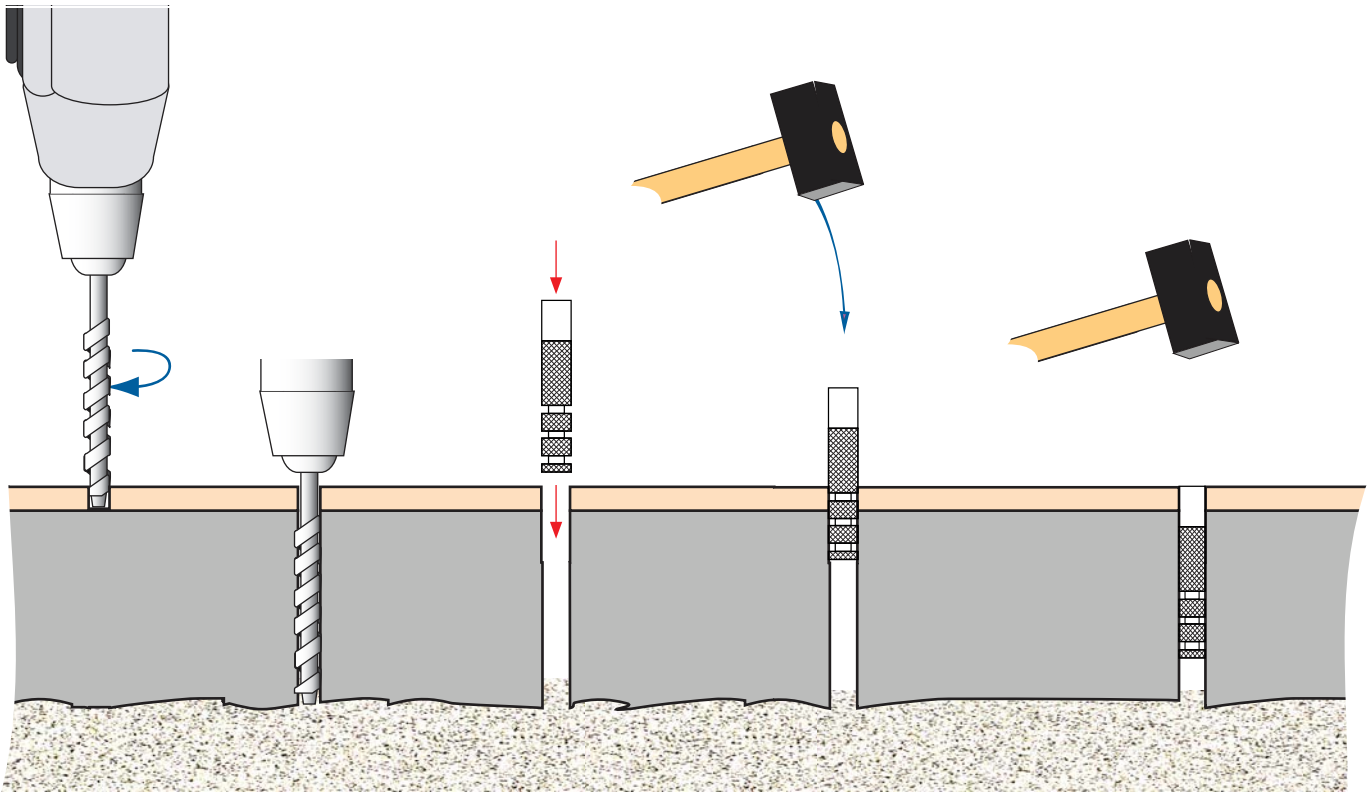
number of ribs x distance between mounting brackets

3 - Fixing the enclosure's mounting brackets

The following parts are needed to install the brackets:

- anchoring bolts
- metal anchors
- a mounting bracket with attached screws

The phases of the installation are shown below:

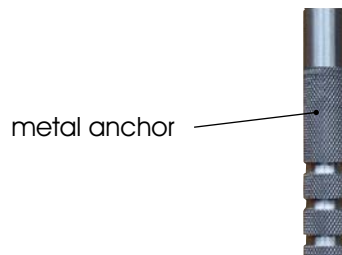


Drilling tools:

- Ø14 mm drill bit for concrete
- hammer drill

Installing the anchors:

Drill the holes for the metal anchors with a 14mm drill bit. Remove any dust from the holes after drilling. Place the glue then the metal anchor inside the hole. The glue requires 20 minutes to harden.



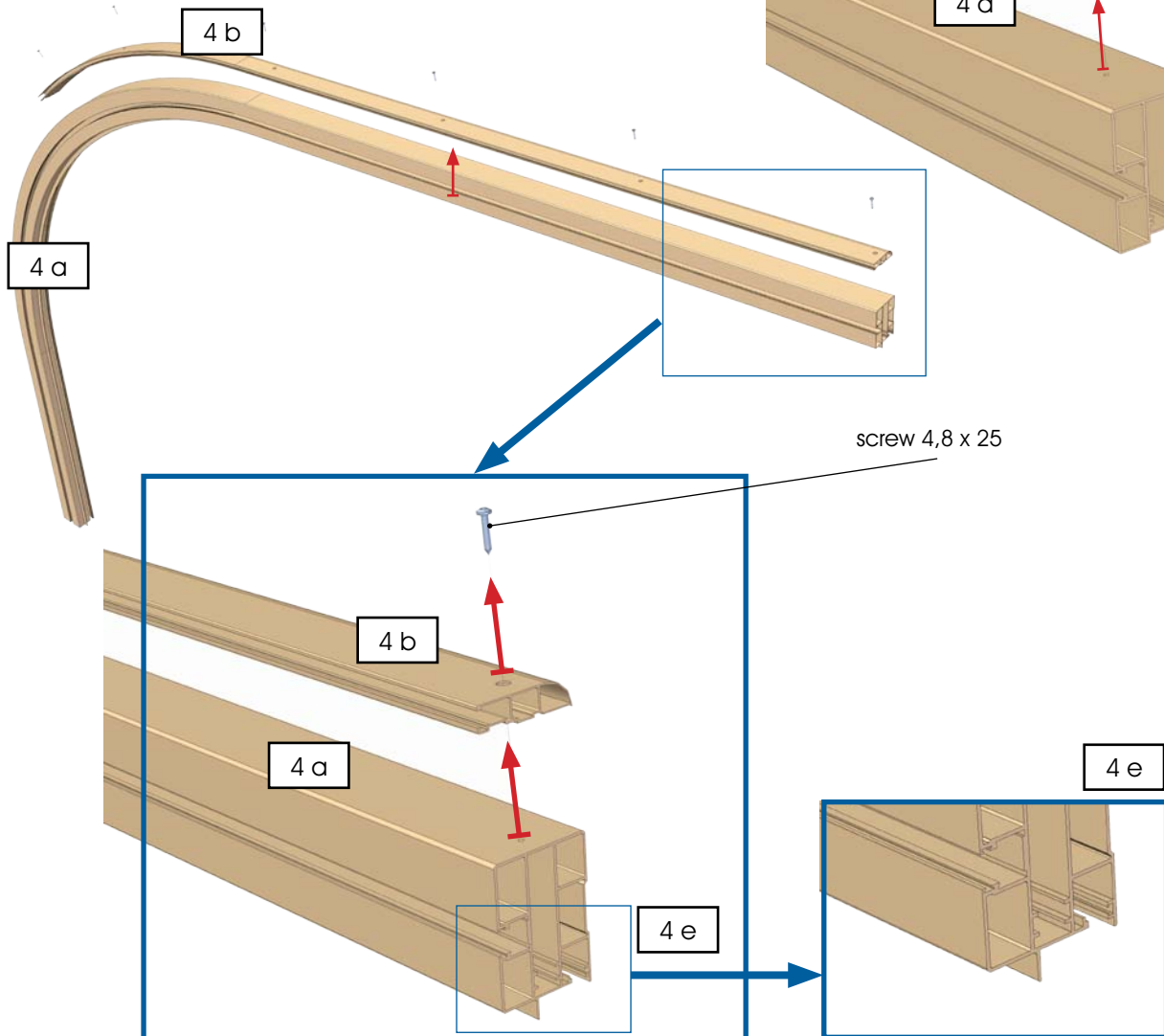
4 - Unmounting the polycarbonate receiver profiles

The receiver profiles (4b, 4c) are delivered fixed to the arched profiles. The reason for this is that it makes shipping easier and this way we can make sure that the right number of receiver profiles is delivered. The receiver profiles must be removed from the arched profiles, because later they would hinder the installation of the linking profiles.

Please note: When unmounting the receiver profiles, remember that later they should be re-attached to the same arched profiles!

Unmounting from the outer arched profiles:

Unscrew the rounded edged receiver profiles (4b), that are fixed to the outer arched profiles (4a). (Note: The main difference, between the outer and intermediate arched profiles, is that the outer arched profiles have an open groove on their lower sides (4e).



5 - Arched profile assembly

As soon as you have finished installing the mounting brackets and removing the receiver profiles, you can start to assemble the arched profiles.

Two types of arched profiles are delivered:

- middle arched profiles
- outer arched profiles

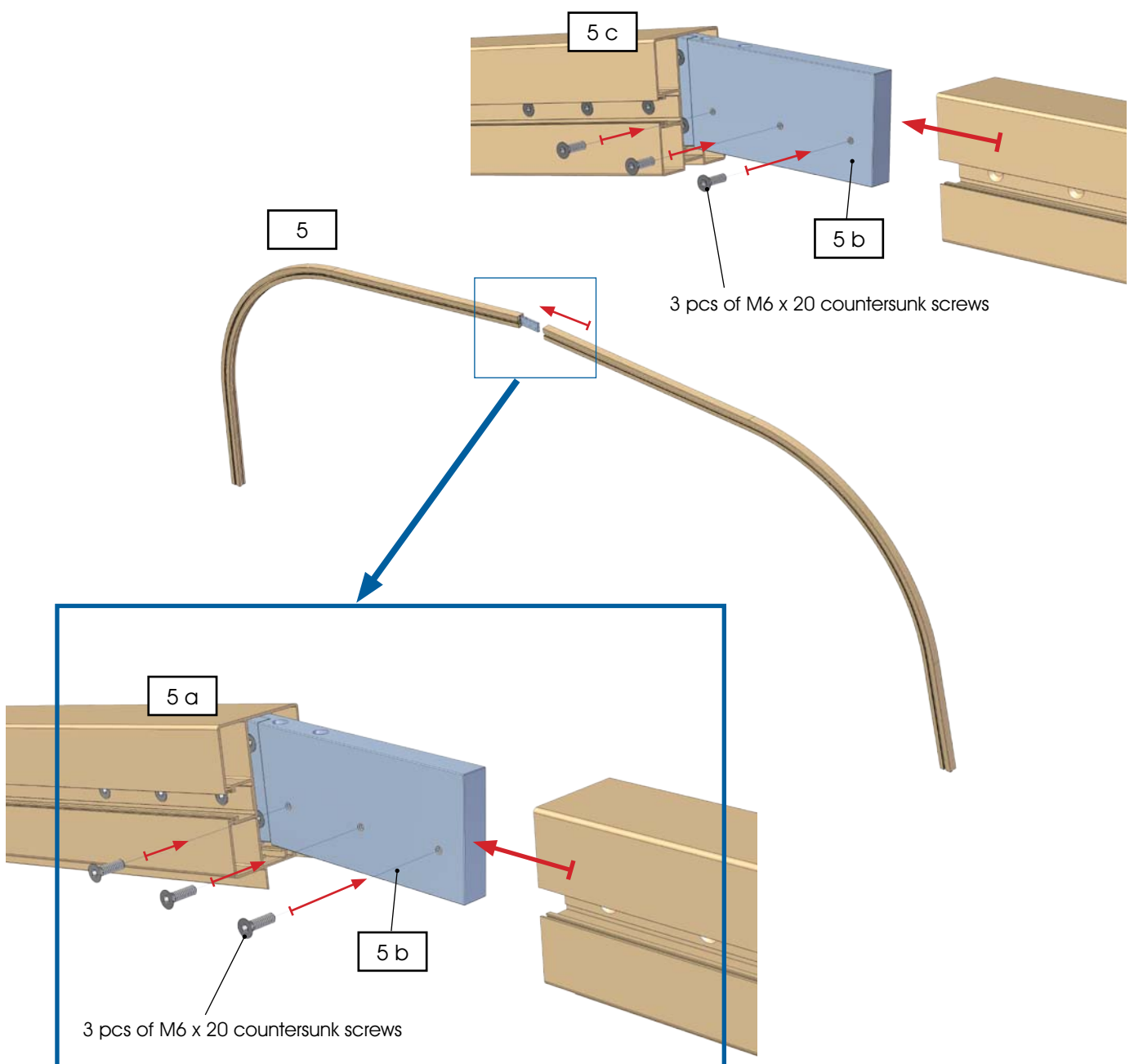
A single arched profile consists of two bent arches and an upper joiner (see figures below). When delivering smaller span enclosures, the two arched profile parts come pre-assembled. In this case, you may skip this step.

Assembling the outer (end-wall) arched profiles:

Assemble the outer arched profiles (5a) with the help of a joiner (5b). We deliver the joiners screwed into the arched profiles. Three M6 x 20 flat head screws are used to join the arched profile parts together.

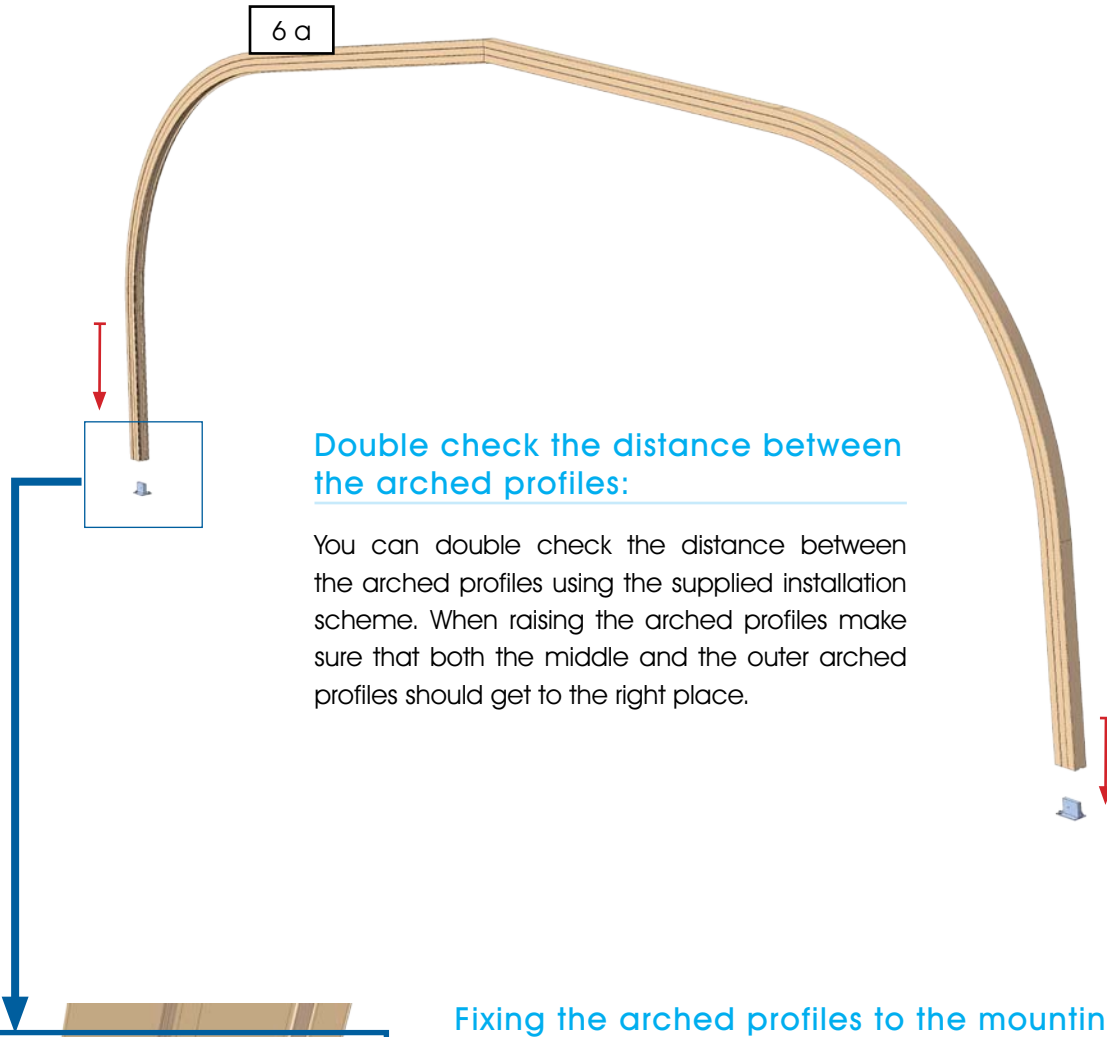
Assembling the middle arched profiles:

Assemble the middle arched profiles (5c) with the help of a joiner (5b). We deliver the joiner screwed into the arched profiles. Three M6 x 20 flat head screws are used to join the arched profile parts together.



Raising the arched profile pairs:

Raise the arched profile pairs with the help of the mounting frame and check the correct placement.

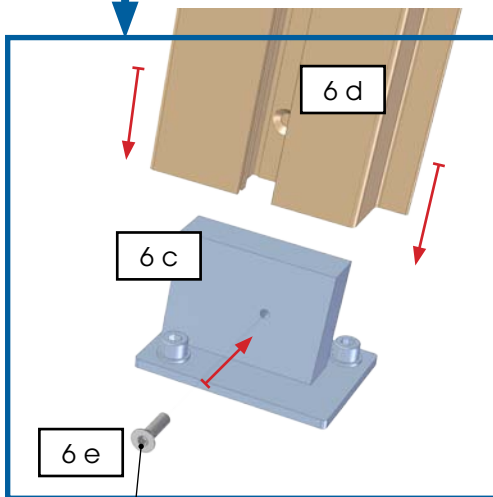


Double check the distance between the arched profiles:

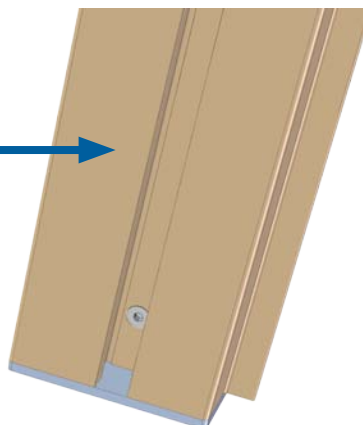
You can double check the distance between the arched profiles using the supplied installation scheme. When raising the arched profiles make sure that both the middle and the outer arched profiles should get to the right place.

Fixing the arched profiles to the mounting brackets:

Fix the arched profiles (6d) in pairs to the installed mounting brackets (6c) using an M6 x 20 countersunk screw (6e).



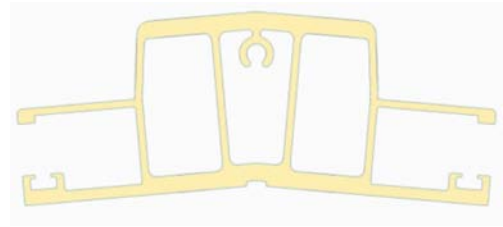
1 M6 X 20 countersunk screw



Do not to tighten the screws too much at this stage. This way it will still be possible to adjust the uprightness of the arched profiles later if necessary. It will also make installation of the side lift up windows easier.

7 - Installing the ridge profile and the upper linking profiles

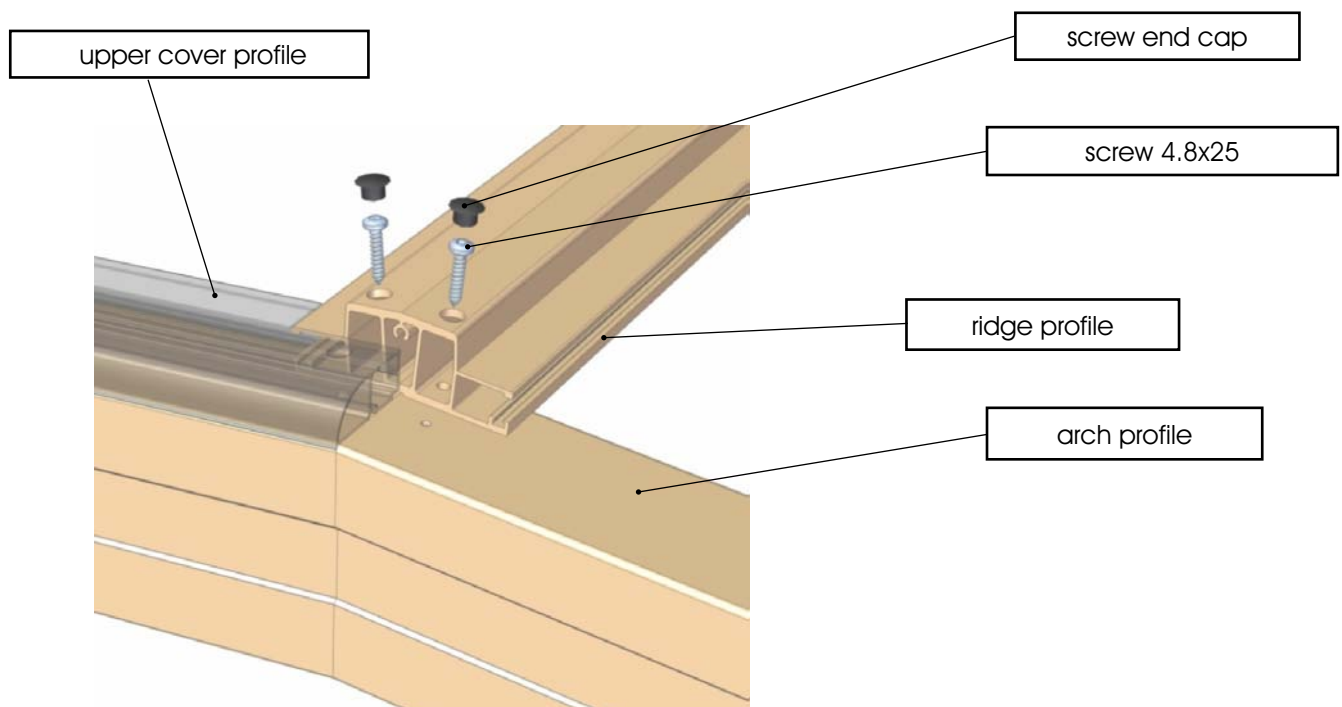
Ridge profile developed for Galaxy model with its sides receiving the polycarbonate



If the positions of the linking profiles are not already marked on the arched profiles, then determine their divisions so that they are distributed equally along the arched polycarbonate receiver profile. To calculate the division, the following formula can be used: $P=L/(n+1)$, where P =division, n =number of linking profiles and L =length of receiver profile.



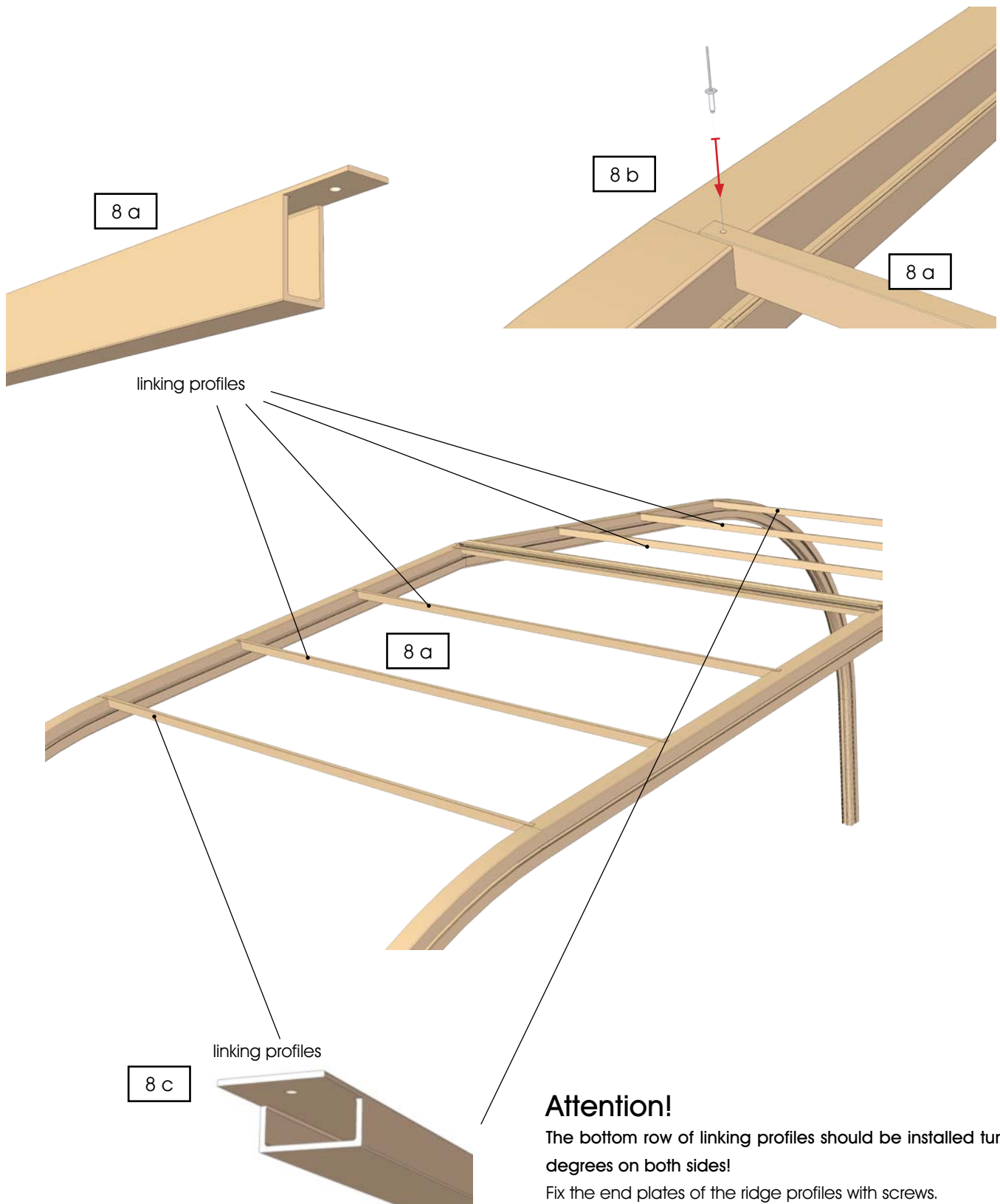
Lay the ridge profile to the apex through the arched profiles. Fix the ridge profile to the outer arched profile in a position determined by its receiver profiles. Then fix the ridge profile to the other arched profiles too. The ridge profiles come in two sizes, either long enough for 2 or 3 bays (4400 or 6600mm).



8 - Mounting the rest of the linking profiles (hollow section)

Mounting the linking profiles

Continue the assembly by installing all the linking profiles.



9 - Receiver profile reassembly

Prepare the glass mounting profile that you removed at the beginning of the installation.

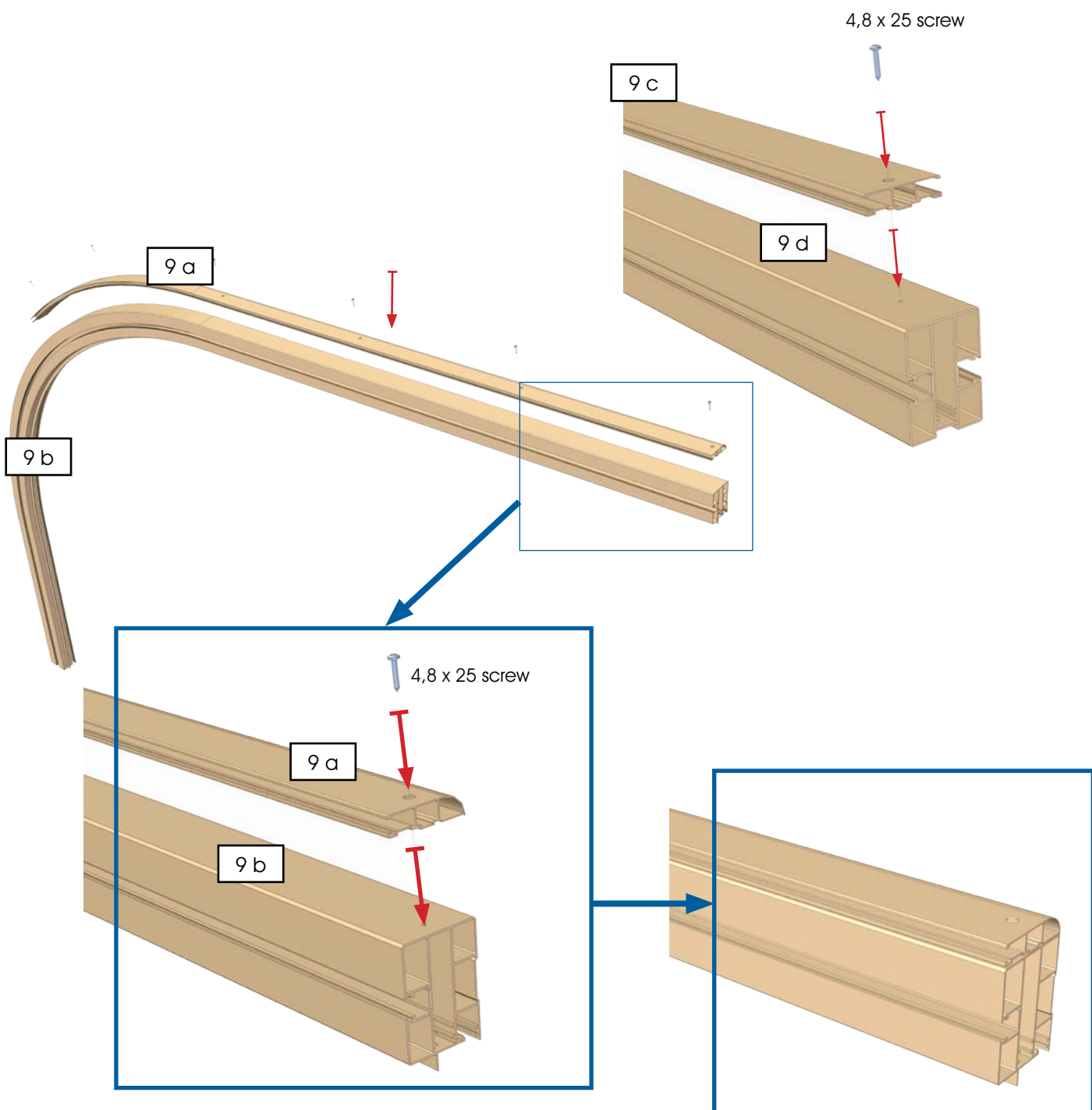
Mounting to the outer arched profiles:

Prepare the polycarbonate receiver profiles that you removed at the beginning of the installation.

Please make sure that you do not mix up the receiver profiles. Reassemble them to the same arched profiles in the same order as they were delivered. The receiver profiles mounted to the outer arched profiles always have an open groove on one side and are closed on the other side. The grooved side must always face towards the middle arched profiles. The middle receiver profiles are open on both sides.

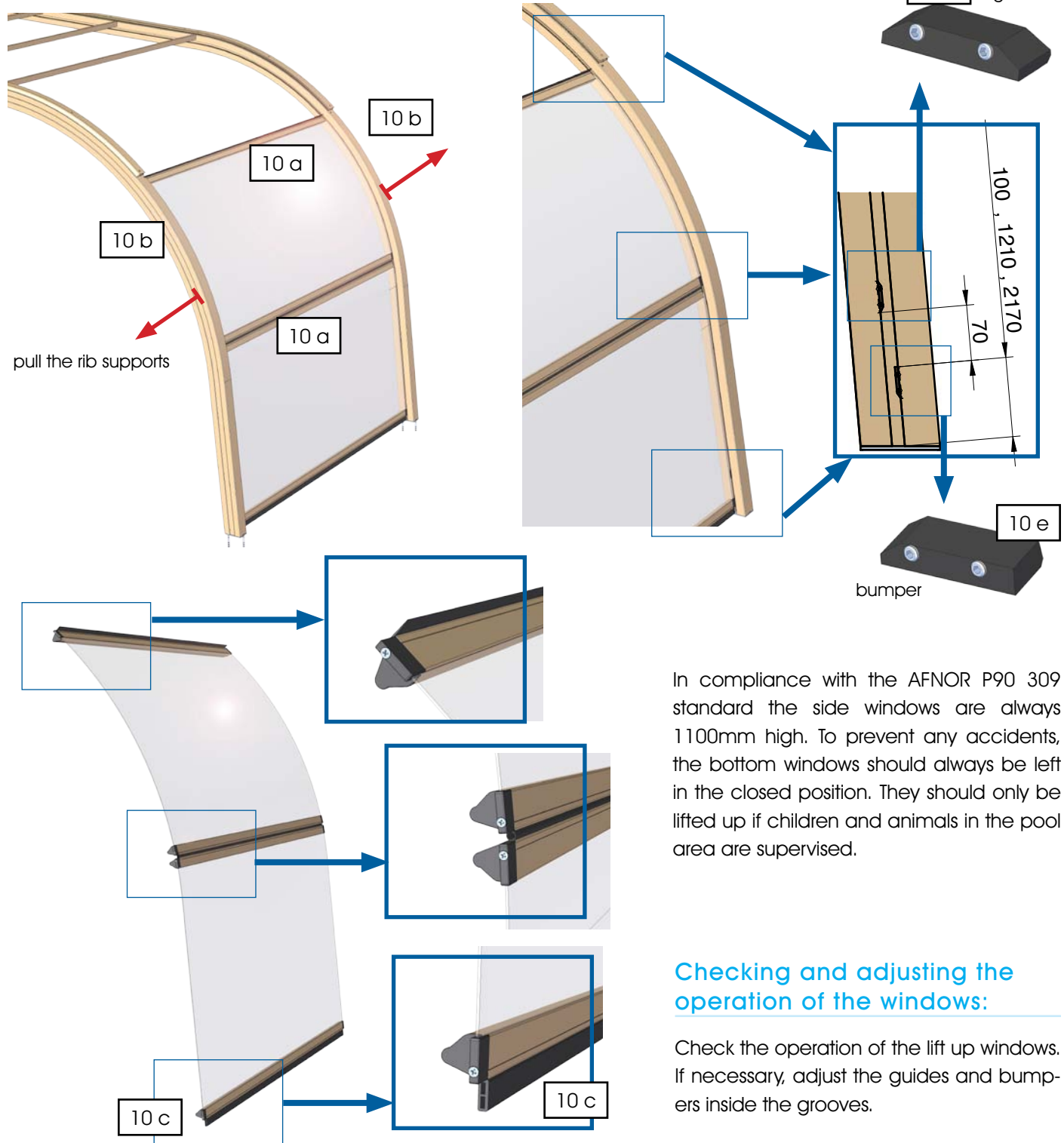
Mounting to the middle arched profiles:

Reattach the receiver profiles (9a) to the top of the middle arched profiles (9b).



Installation of the side lift up windows - installation of guides and bumpers:

Insert the pre-assembled lift up windows (10a) into the groove of the arched profiles. Pull the arched profiles (10b) slightly apart in order to fit the windows between them. The window panels with the wide rubber seal go to the bottom (10c). The insertion of the windows should always be started at the middle segment. During manufacturing 3 pairs of guides (10d) and 3 pairs of bumpers (10e) were installed inside the grooves on both sides of the arched profiles in accordance to the AFNOR P90 309 standard. With their help, the side windows can be set into 3 different positions of your choice. At the same time the bumpers have a safety function too, because they do not allow the windows to slam shut.



In compliance with the AFNOR P90 309 standard the side windows are always 1100mm high. To prevent any accidents, the bottom windows should always be left in the closed position. They should only be lifted up if children and animals in the pool area are supervised.

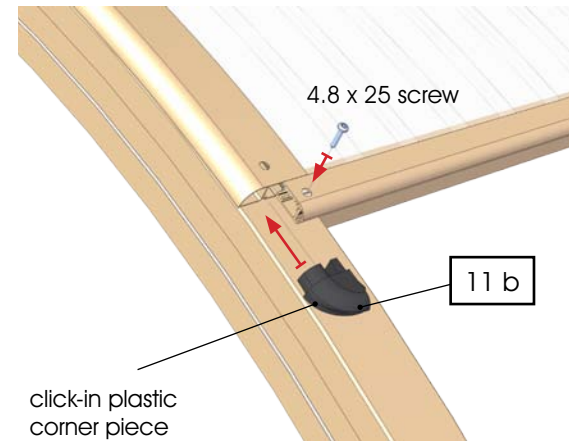
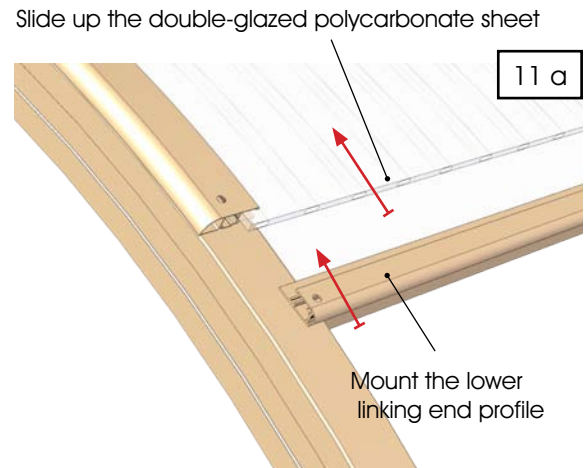
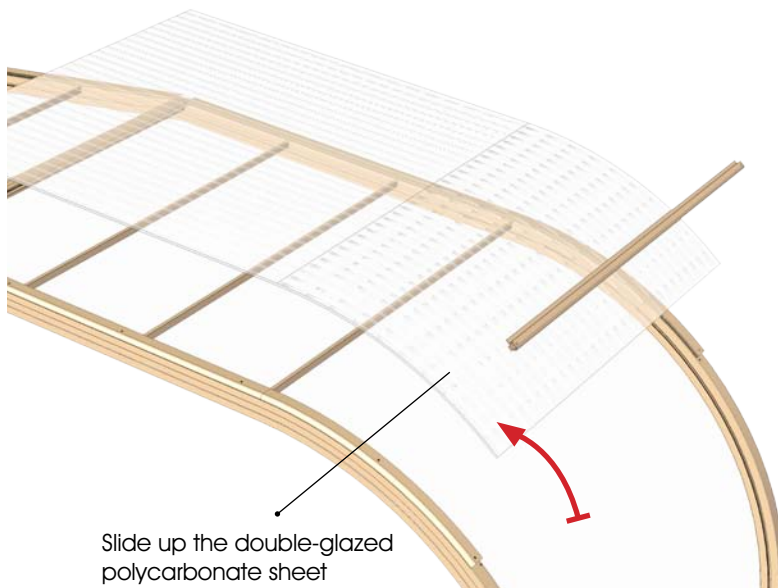
Checking and adjusting the operation of the windows:

Check the operation of the lift up windows. If necessary, adjust the guides and bumpers inside the grooves.

11 - Installation of the fixed roof polycarbonate panels

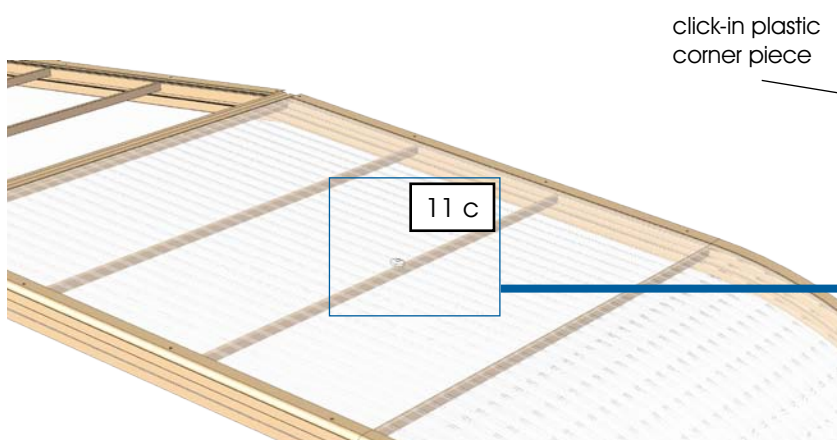
Installing the double-walled 10mm polycarbonate panels:

Install the cut-to-size double-walled 10mm polycarbonate panels, then fix them to the linking profiles with the supplied plastic washers and screws. Fit the panels (11a) into the bottom of the receiver profiles which are mounted to the top of the ribs, then slowly slide them upwards into the top receiver profiles at the apex.

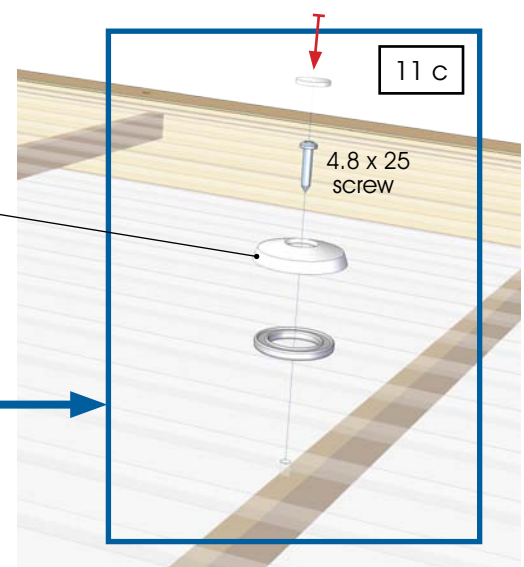


Installing the bottom receiver profiles and fixing the panels to the linking profiles:

When the above process has been completed, please fix the lower edge of the roof panels with the bottom receiver profiles. Attach the receiver profiles to the lower edge of the panels. Push the plastic corner caps (11b) onto the profile joints. After installing the bottom receiver profiles, the next step is to drill and screw the double-walled 10mm polycarbonate sheets to the hollow linking profiles. Finally, fix the fastening clips with self-tapping screws (11c). The quantity of fastening clips required for each segment depends on the width of the enclosure.



click-in plastic corner piece



Important!

For both upper and lower receiver profiles there are outer and middle profile types. On the outer types only one end is prepared so that it can be connected to the receiver profiles mounted to the arched profiles. Both ends of the middle receiver profiles are cut to the proper shape.

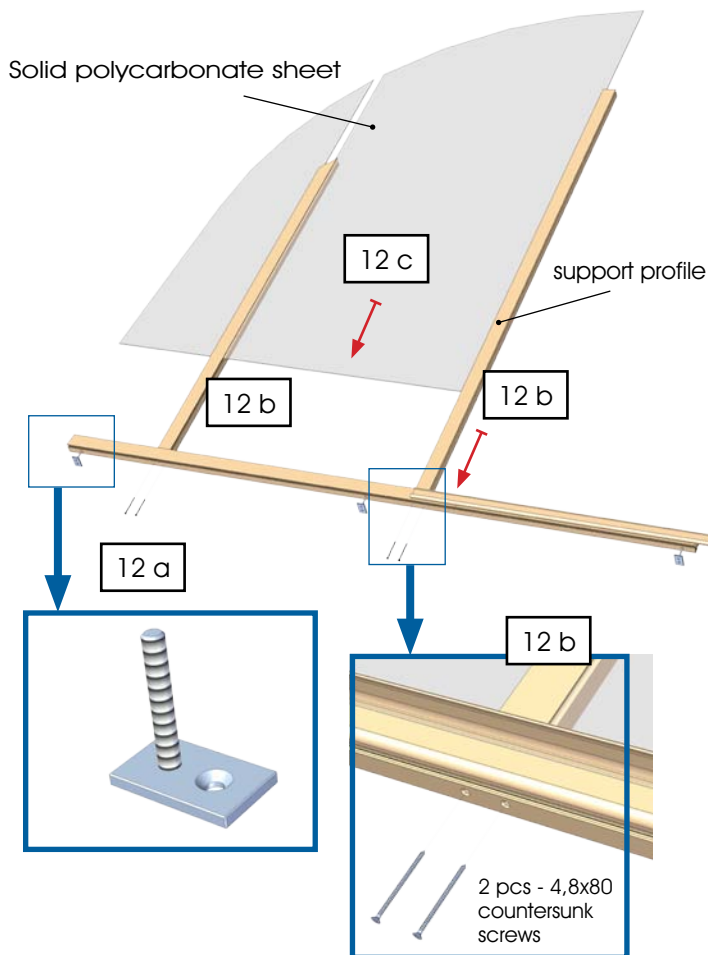
Types of end-walls, different shipping methods:

All end-wall components that will be assembled on the site are delivered pre-cut to the final size and pre-drilled. A drawing is supplied with all front and back walls, as they are all individual.

Different versions of front and back walls:

- fixed without door
- with a single sliding door
- with a double sliding door

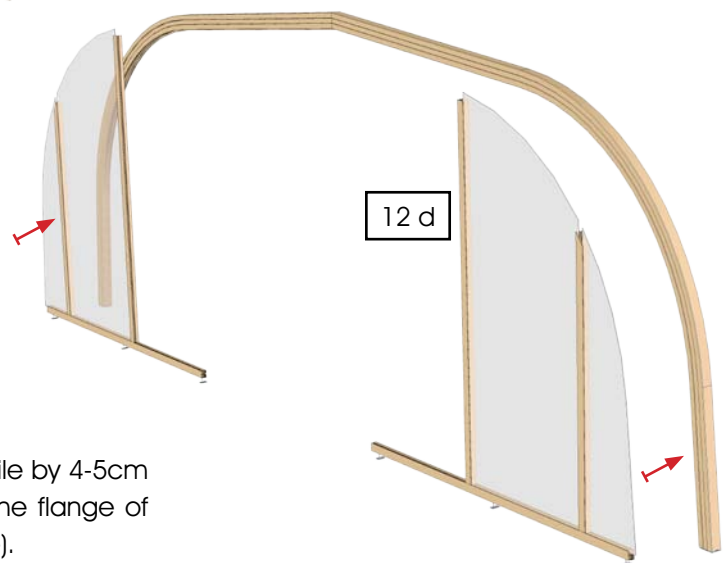
Below, the assembly of the most complicated and at the same time most popular end-wall type, that with a double sliding door, will be demonstrated.



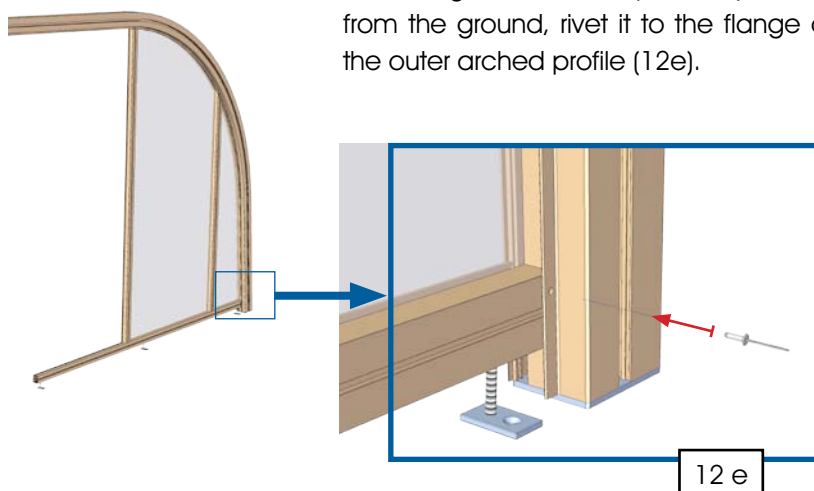
Steps of assembly:

1/ Mark the place for the threshold profile underneath the outer arched profile. Drive the support bracket (12a) into the M8 nuts in the threshold profile, then fix the vertical frame profiles (12b) on the other side of the threshold profile with 4,8 x 80 flat head screws. Place the pre-cut, solid, 4mm thick polycarbonate panels (12c) in the space bordered by the outer arched profile, the vertical frames and the threshold profile.

Move the end-wall pieces into position underneath the outer arched profiles.



After lifting the threshold profile by 4-5cm from the ground, rivet it to the flange of the outer arched profile (12e).



Attention!

The front and back walls are made 40mm shorter. This way the end-walls can be adjusted more easily in case the ground surface is uneven.

The length of the threaded support brackets is adjustable, which ensures a proper height setting to the end-walls.

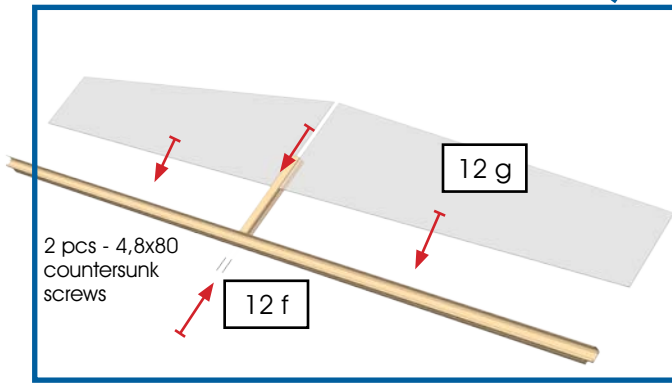
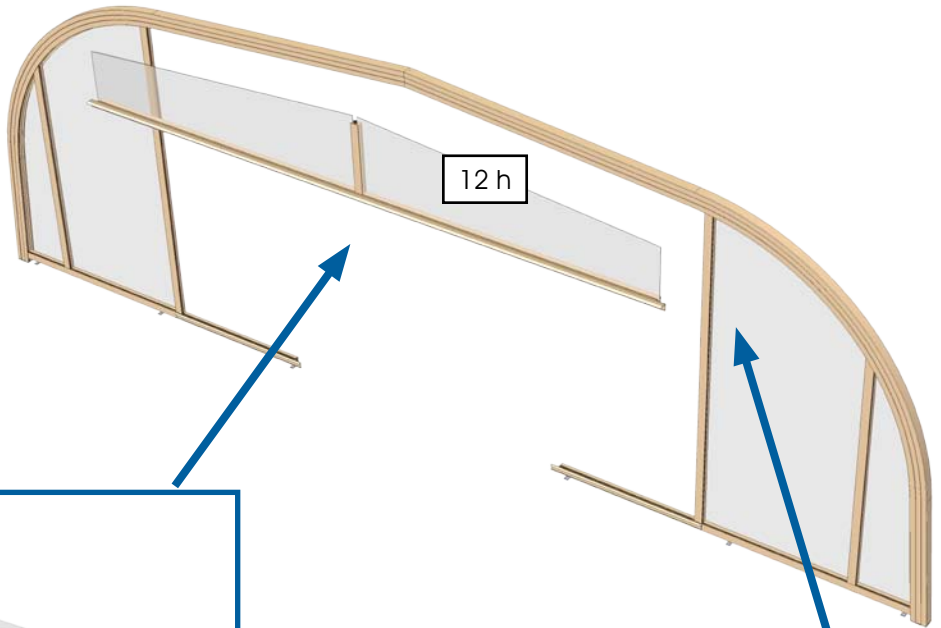
12 - End-wall assembly

Installing the fixed top section:

Assemble the fixed top section.

- fix the vertical frame with screws (12f)
- slide the polycarbonate sheet into the frame (12g)

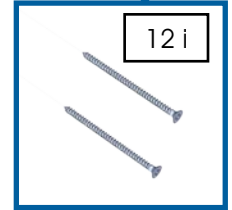
Move the assembled top section into position (12h), fix it with self-tapping screws (12i) on the sides and with rivets at the top.



2 pcs - 4,8x80 countersunk screws

12 f

2 pcs - 4,8x80 countersunk screws

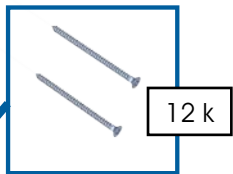
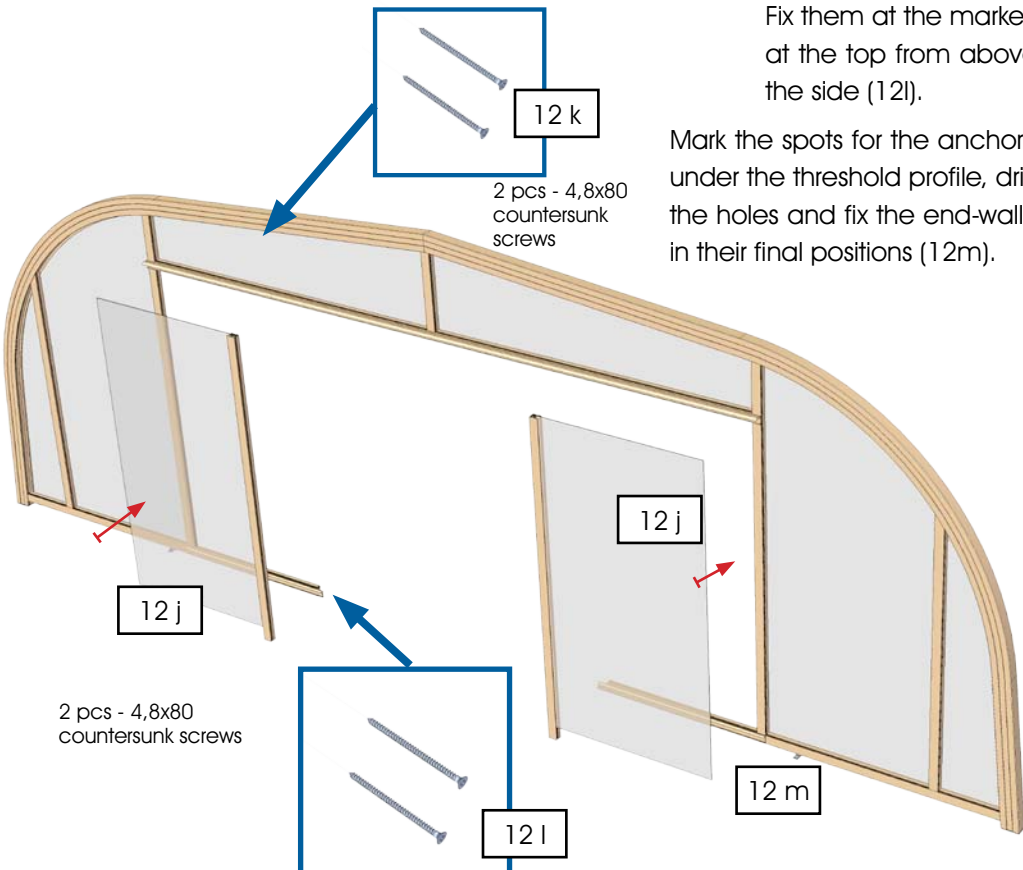


Final steps of the end-wall assembly:

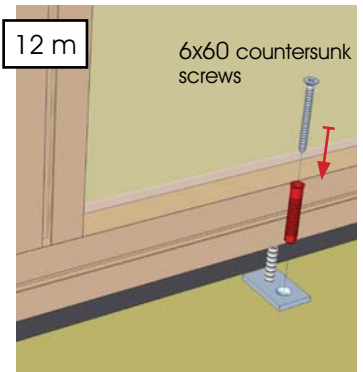
The last two parts to be installed are two vertical frame profiles and the two polycarbonate panels belonging to them. Fit these parts together and then move the assembled piece into position (12j).

Fix them at the marked spots with self-tapping screws, at the top from above (12k) and at the bottom from the side (12l).

Mark the spots for the anchors under the threshold profile, drill the holes and fix the end-walls in their final positions (12m).



2 pcs - 4,8x80 countersunk screws

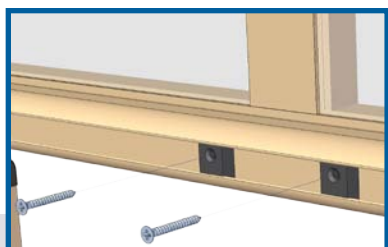
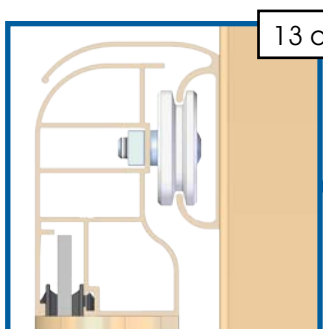
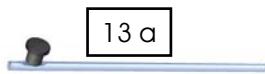
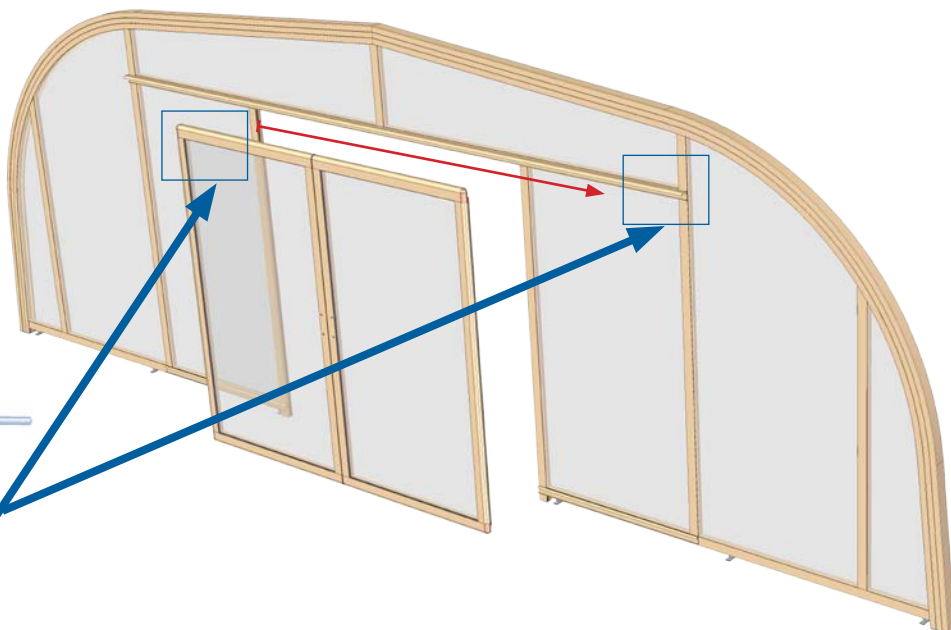


Once the end-walls are ready, pull the missing rubber seals into the threshold profiles. The end-wall sections are shipped with rubber on one side only.

Sliding doors:

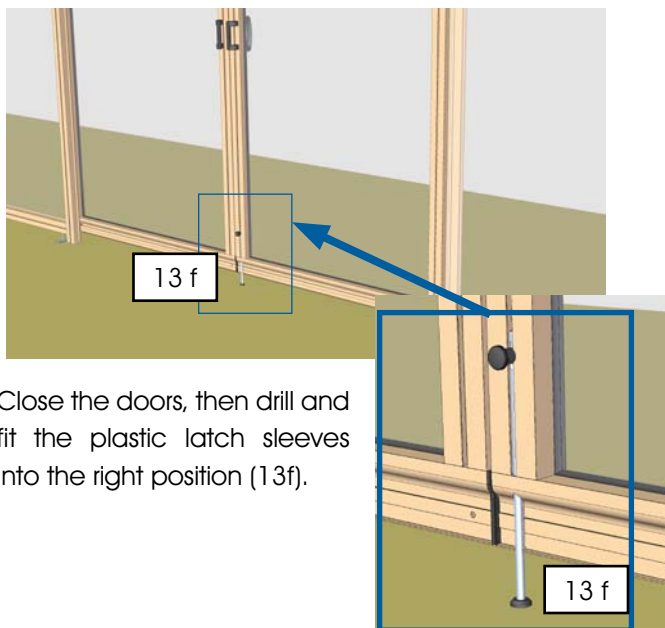
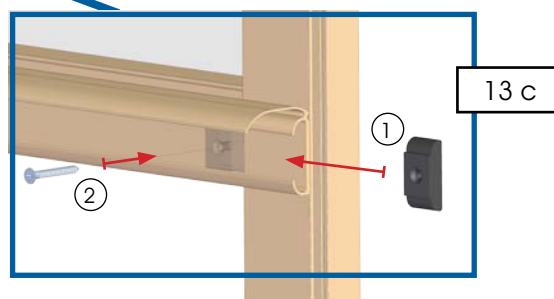
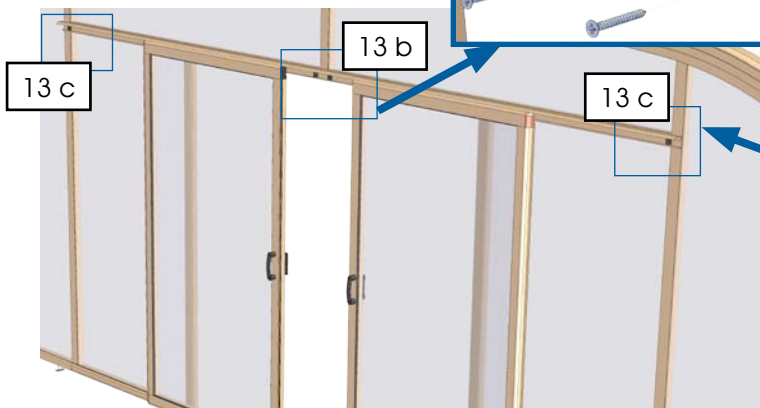
The sliding door leaves are delivered pre-assembled. The top railing of the sliding door is mounted to the cross beam profile above the door, while the bottom railing is mounted to the threshold profile.

Place the latch (13a) into position (13d).



Mounting the sliding doors:

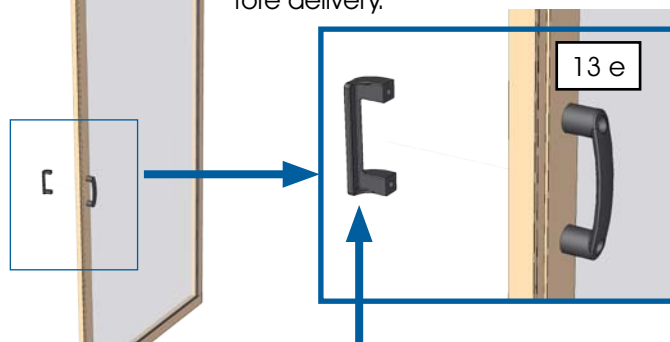
Place the inner bumper (13b) into the railing and push it into position. Next, insert the door guiding wheel into the railing (13d). Finally, insert the outer bumper (13c). Set the exact position of the doors with the help of the bumpers (the position of the bumpers is shown on the drawing).



Close the doors, then drill and fit the plastic latch sleeves into the right position (13f).

Handles:

Finally, install the interior handles (13e). The exterior handles are installed before delivery.



Interior handles: fix them with 8,4 x 25 self-tapping screws.



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