Nürburgring Continental Tower

Building instruction V1.1

The Continental Tower from the Nürburgring.

This description contains information about our kit "Continental Tower". It fits to our start and finish house.

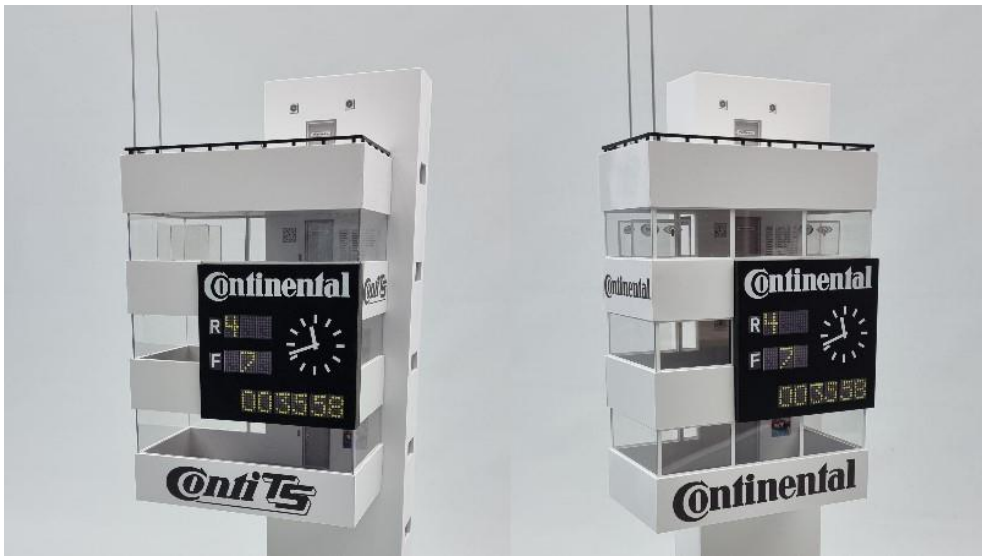
Scale is 1:32.

We underestimated the Conti Tower. The tower looks very simple, but the construction was more complex than expected ☺

The simple appearance in particular requires very precise work when assembling. Especially the edges of the building require great care. The building instructions deal with this in detail.

Like the SuZ, the edition is small but not limited. We always have a few kits in stock and produce more if needed.

The tower is available in these two versions:



In the 'Conti TS' turret (left) the old, unprinted windows are still installed. The kit contains the printed windows, of course.

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Table of contens:

General notes

Made in Germany

All buildings, stands, stickers, etc. are designed and manufactured in Germany, more precisely in the „Oberpfalz", in the middle of Bavaria.

That is why I have taken the liberty of designing our own "seal of approval".

All kits are manufactured by ourselves. Our suppliers are in the immediate vicinity.

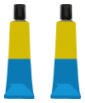
Therefore: 100% Handcraft from Bavaria ☺

Level of difficulty

With the Conti Tower kit, I decided to introduce a grade for the difficulty of a kit.

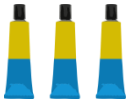
Level 1:

Very simple kit, just plug together and fix with glue.



Level 2:

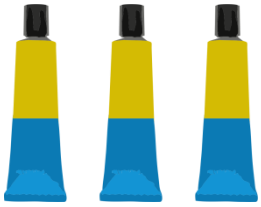
The kit can be assembled by a beginner, but is extensive, patience is required during construction.



Level 3:

For the construction you need some modelling experience, it contains parts that are not easy to assemble. Gluing and sanding work is necessary. Please check the building instructions beforehand to see if you are able to build it.

The Conti Tower is clearly a level 3 kit:



Scale, dimensioning and construction

Like the SuZ, the Conti Turm is intended for 1:32 scale.

Like all our buildings for slot tracks, we have also "compressed" the tower somewhat. On the one hand, it should fit the SuZ in size, on the other hand, as often described, it would simply be too high in 1:32 scale. At 20.5m, it would be 64cm high in 1:32 scale, which is simply too big for a home layout.

The tower is not balanced, which means that it cannot simply be placed on the layout, it would fall over. In the original, the built-up area is 7.8 square metres, which is very little. In the model it is only 94 x 57 mm. That is why the tower stands on an "inner stand", which has to be screwed onto the layout (or a small board). The tower is simply placed on this stand. It centres itself automatically.

We have also attached importance to always having access to the individual platforms. The upper 3 platforms can also be removed at a later date, so that it is possible to equip them with figures or lighting at a later date.

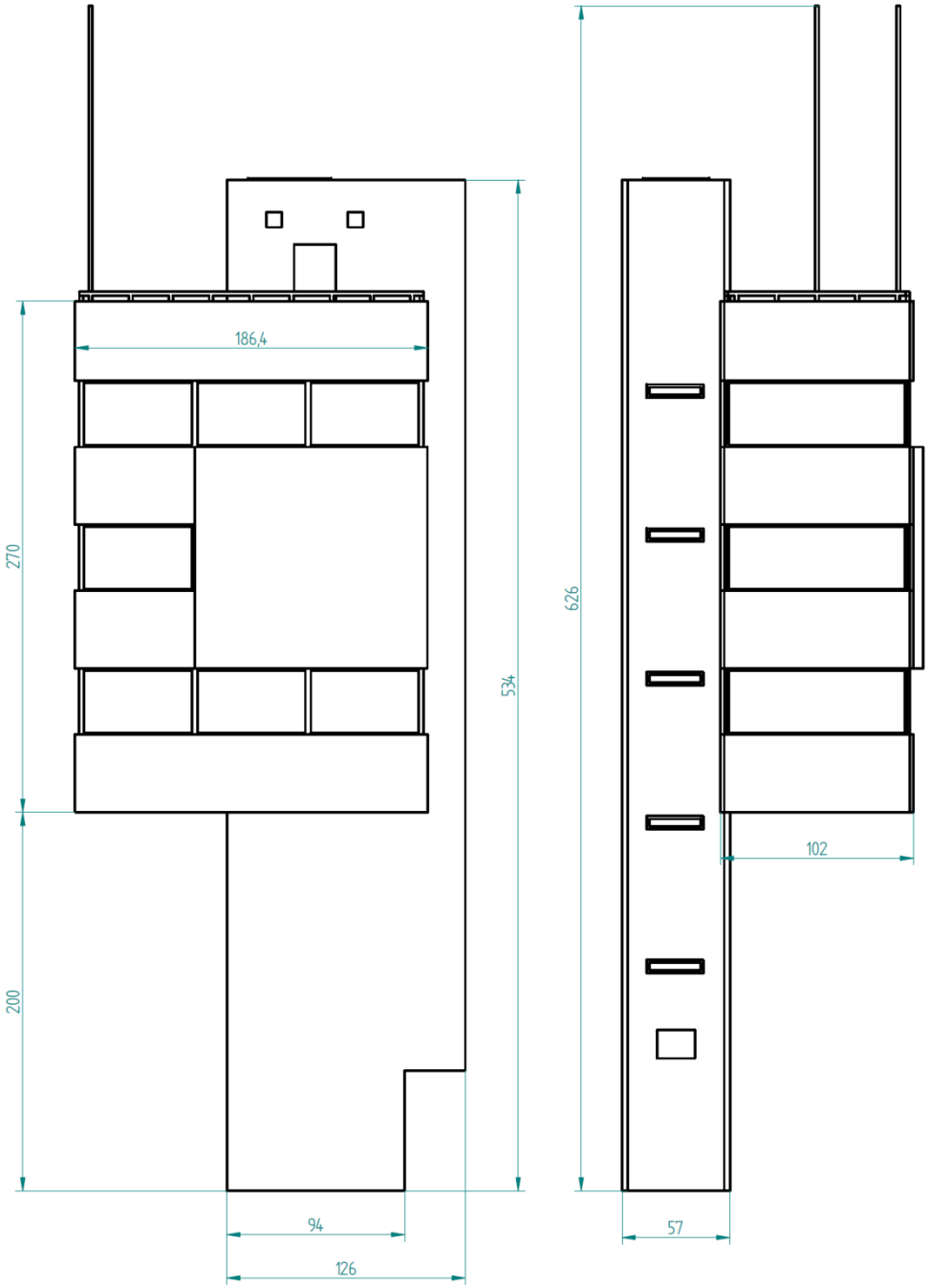
Here are the individual platforms:

Platform 1:	Lounge, viewing room for invited guests
Platform 2:	Meeting and reception room for in-house use with catering area
Platform 3:	Race technical workroom for track, radio and television announcers and press
Platform 4:	Viewing platform for photojournalists and cameramen

In the stair tower there were 2 toilets, utility rooms and rooms for catering.

All rooms were air-conditioned. Because of the nearby pit lane, smoking was strictly prohibited on the observation deck. Smoking was allowed in the tower, but the windows could not be opened.

The dimensions of the model can be found in the following illustration:



The workshop equipment

All you need is a sharp cutter knife, a sheet of sandpaper (320 is good), UHU allplast, a couple of Q-tips to wipe off glue, a couple of toothpicks to remove glue in corners and a kitchen roll.

Small combination pliers or tweezers help people with big hands☺.

A side cutter is useful but does not necessarily have to be, the same goes for an angle. The kits are designed so that the parts pull themselves straight.

For the Continental Tower you also need 2 sanding blocks with 150 and 320 grit sandpaper.

Allow me a few notes on the glue.

The individual components are glued together with UHU allplast, which slightly loosens the components and "welds" them together. Use the glue sparingly, it should not overflow.

Unfortunately, UHU allplast tends to pull threads. You can avoid this by pulling the tip of the tube off the edge of the component. So apply the glue and just before the end press the tip of the tube against the component and pull it away to the side. The glue hardens relatively quickly. Usually it is enough to hold the components in position for a short time -> done.

The glue dries very quickly, so it's worth screwing the tube back on again and again, which is a nuisance, but it saves your nerves. I always put the glue in an empty coffee cup during breaks, so it stands upright.

Recently, more and more customers have told me that the panels can also be glued very well with superglue. I pass this on here.

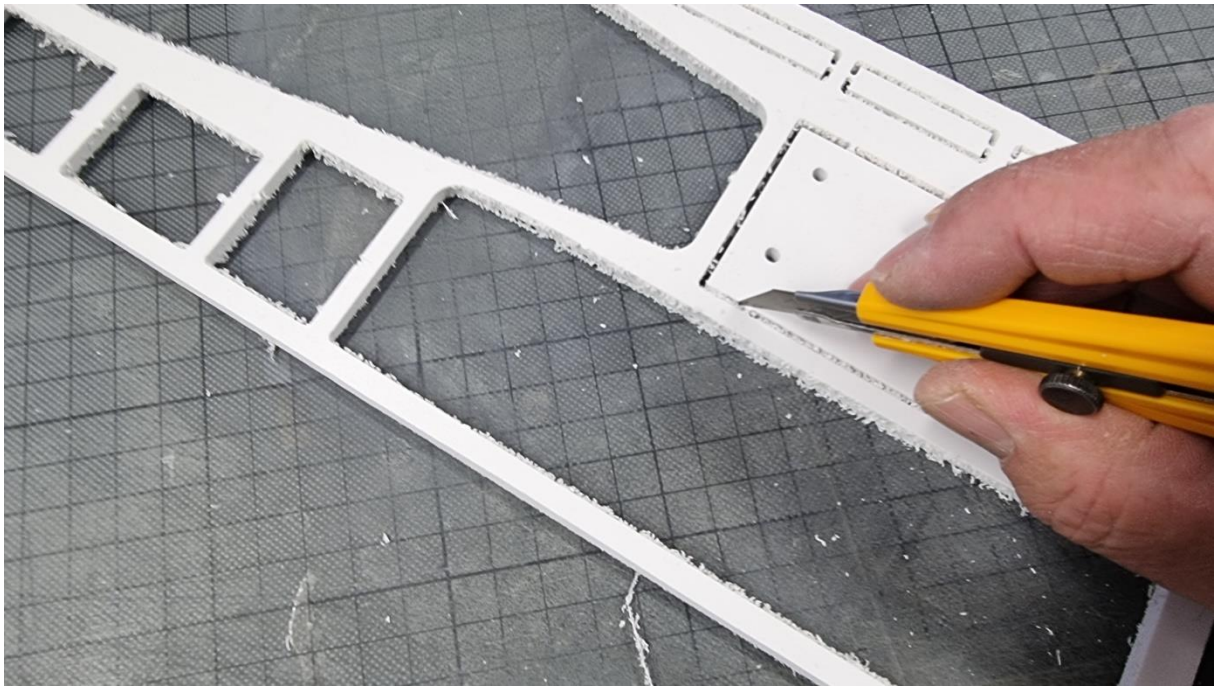
Quality oft he components

The parts of the kit are milled from printed plates on a CNC milling machine. Some parts are held in place by bars in the plate.

We clean all parts from milling residues with compressed air and, if necessary, with sandpaper. Nevertheless, residues may remain on components.

Therefore, all parts of the kit must be checked and reworked if necessary. The edges of the parts can also be a little "fibrous" from time to time. It is sufficient to rework the edges with a small piece of sandpaper or the white sanding fluid (included in every kit).

This picture shows a gruesome example. But don't worry, most of the milling residues are on the plate (frame) from which the parts have to be cut out.



When cutting the bars, simply run the knife vertically along the edge on the BACK of the part. Remove the remains of the bar with a file or sandpaper, grind briefly over the edges -> done.

Please understand that we cannot deliver all parts in "ready-to-assemble" condition. This costs additional time and would only increase the price of the kit disproportionately.

Information about the Conti Tower

Here you can find further, absolutely interesting information about the Conti Tower. The original brochure, unfortunately without dating and only in German.

http://www.edelhirsch.de/download/ContiTurm01.png

http://www.edelhirsch.de/download/ContiTurm02.png

http://www.edelhirsch.de/download/ContiTurm03.png

http://www.edelhirsch.de/download/ContiTurm04.png

http://www.edelhirsch.de/download/ContiTurm05.png

http://www.edelhirsch.de/download/ContiTurm06.png

http://www.edelhirsch.de/download/ContiTurm07.png

http://www.edelhirsch.de/download/ContiTurm08.png

http://www.edelhirsch.de/download/ContiTurm09.png

Building instruction

An important note right at the beginning! Please always test fit the parts before gluing them together. This way you can check in advance whether everything fits. The gluing points can also be determined in this way.

I know from a lot of feedback that this is often forgotten and the parts are glued incorrectly, which is annoying.

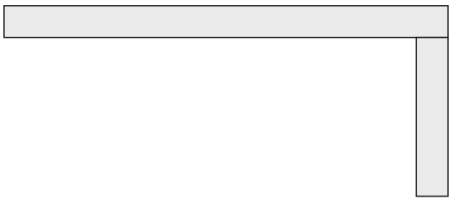
It also doesn't hurt to flip forward a few pages every now and then.

The Continental Tower looks quite simple. Its straight lines and surfaces indicate a simple structure.

Unfortunately, that is deceptive. It depends on your requirements. If you want to build the Continental Tower really clean, you can't avoid sanding work.

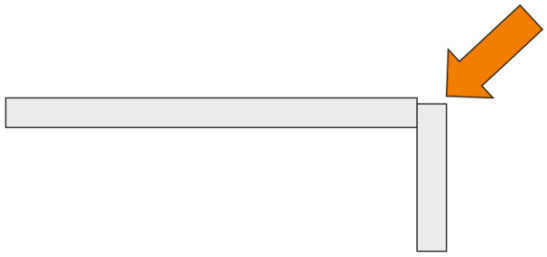
And because this is very important, there is a separate chapter on it.

Sanding Work



The rigid foam panels are normally glued butt-jointed.

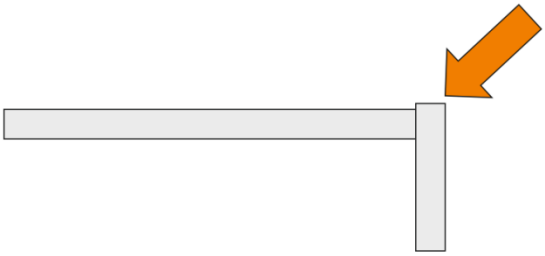
Ideally so precisely fitting and flush that no seam is visible.



Unfortunately this does not always work.

In the worst case it looks like the picture on the left.

This is very difficult to correct, you have to sand down the whole surface.

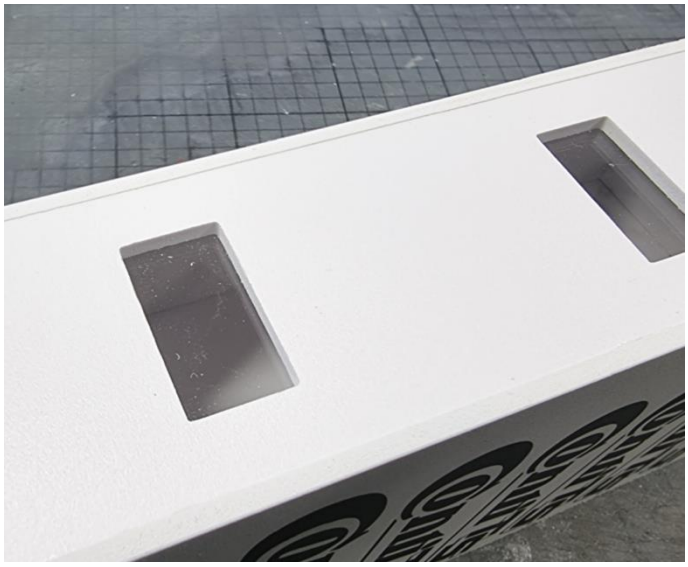


It is cheaper this way.

The protrusions can be sanded off very easily.

The kit takes this into account.

The building instructions contain the corresponding instructions.



These protrusions were deliberately "built in" at the appropriate points during the construction of the tower.

For example, in the staircase wing and the outer sides of the platforms.

I used sandpaper on cork blocks.

2 grain sizes: 150 and 320.

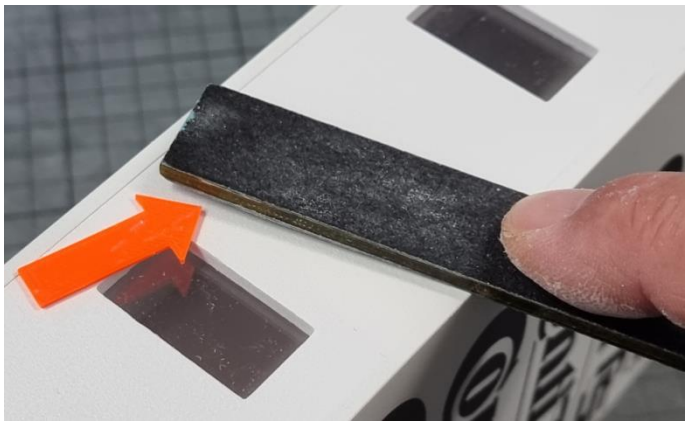
These grain sizes are sufficient.

Simply cut smaller pieces out of the A4 sheets and attach them to the blocks with tacks.

On the Continental Tower, the protrusions are e.g. at the front and rear of the staircase wing. On the left and right, these protrude 0.2mm over the side parts.

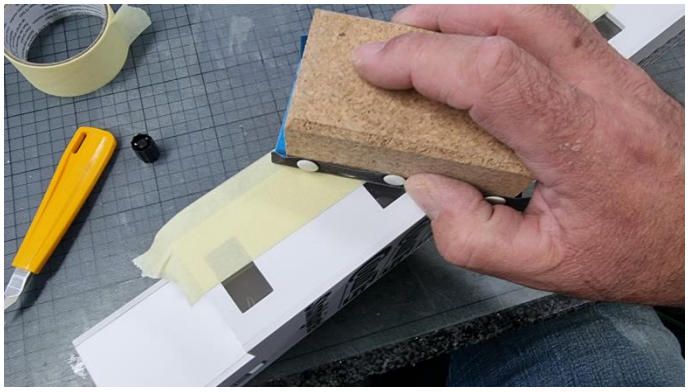
When gluing these parts, do not be sparing with glue, it does not matter if it **slightly** overflows.

The glued seams must be allowed to dry thoroughly (at least 30 minutes) before sanding.



Smaller spots can be smoothed with such a sanding board.

To avoid scratching the surface, keep an acute angle, i.e. hold the sanding board at a minimal angle.

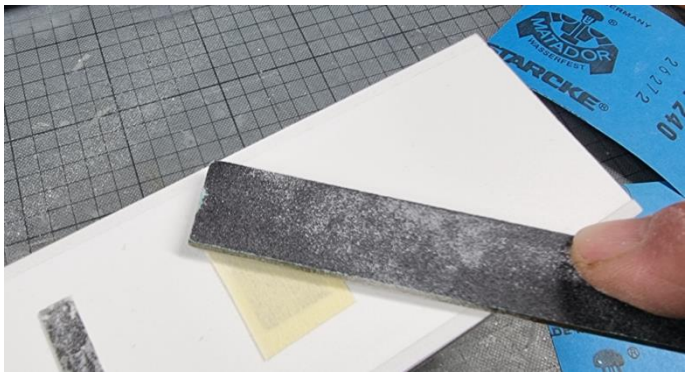


The sanding block is suitable for longer distances.

Protect the surface with a strip of painter's canvas (here 2-ply).

Hold the component at an angle to the light, you can see every dent.

When grinding with the block, make circular movements, never grind in one direction only.



Printed details can be masked off.

Here the edge is lower. This can also be sanded. Unfortunately, you have to sand the whole surface downwards.

This works quite well with a sanding block, but it takes time. First prepare with a 150 grain, then regrind with a 320 grain.

So the best thing to do is to ensure a good fit right from the start when gluing.

This entire surface was ground down in the manner described above.

The result is impressive.

Here I have not applied enough glue.

The cleft was clearly visible.

Simply pry the spot open minimally with a cutter knife.

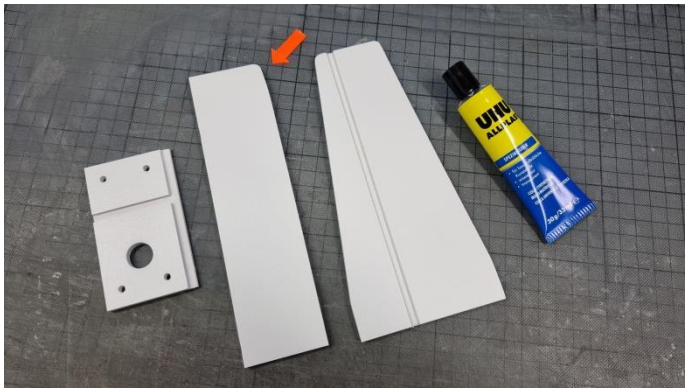
Then a bead of glue is applied.

Use the cutter knife to prise open the gap a little and press in the glue with your finger / toothpick.

Allow the glue to dry thoroughly again (min. 30 minutes) and then sand the area.

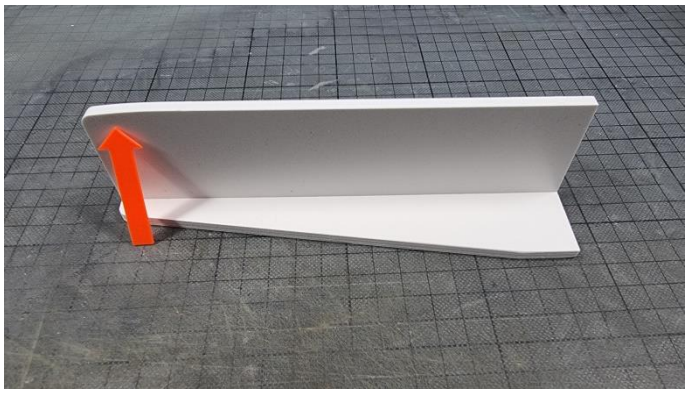
The inner stand

The parts of the stand are 5mm thick and are located (if not yet released) in a support plate (frame).



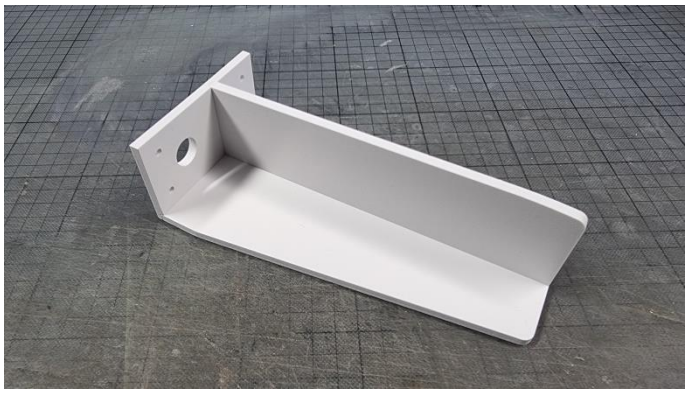
These 3 parts are needed:

- Base plate left
- Stiffener with rounded corner (orange arrow)
- Back wall



The stiffener is glued into the groove in the back wall. The rounding must be positioned as shown in the picture.

Press in well, no gap should be visible. This is **important**, the construction will later fit very accurately inside the staircase.



The construction is glued into the base plate. Only one positioning is possible.

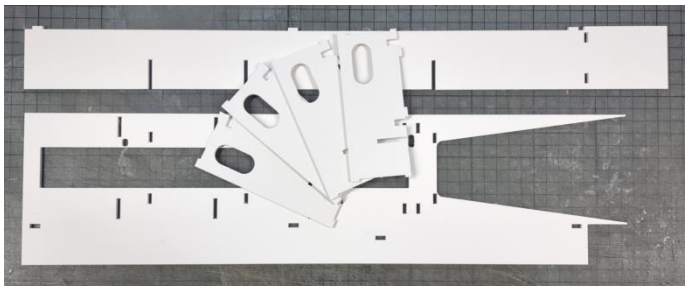
Again, press together well, there should be no visible gap between the glued areas.

The large hole is the cable feed-through for possible lighting, the small holes are for the screws to fix the base.

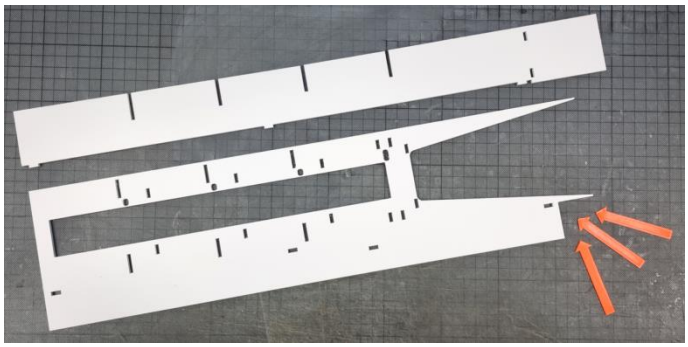
The staircase

The parts for the staircase contain the necessary cable bushings for lighting.

The LED strips that are also used for the pit lane are suitable for the lighting. There are separate instructions for installing the lighting in the download area at www.edelhirsch.de.

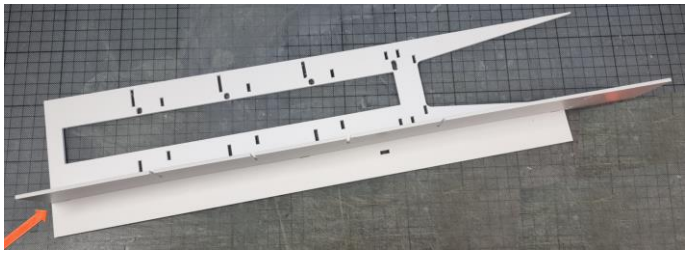


Let's start with these parts.



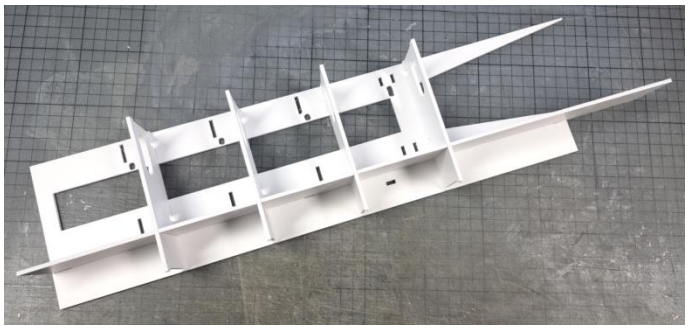
Position the large frame part as shown in the picture.

The corner (orange arrows) must be at the bottom right, otherwise the tower will be built the wrong way round.



The long part fits with its pins into the recesses of the frame part.

It can be moved minimally to the left and right in the recesses. The part must be positioned so that it is flush with the frame part on the left.

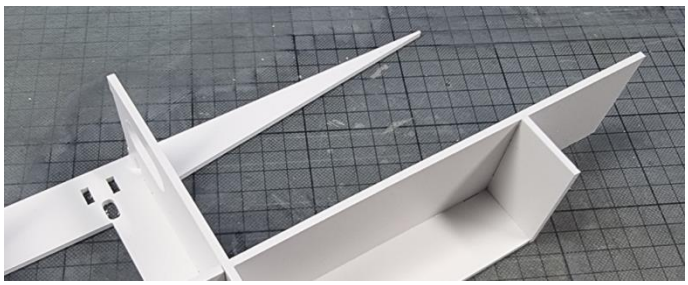


Now the 4 intermediate shelves can be glued in place.

Make sure that the parts on the left and right are flush with the frame.

The intermediate shelves are identical and contain a larger cable gland.

At the bottom right, the ceiling of the overhang is glued in place.



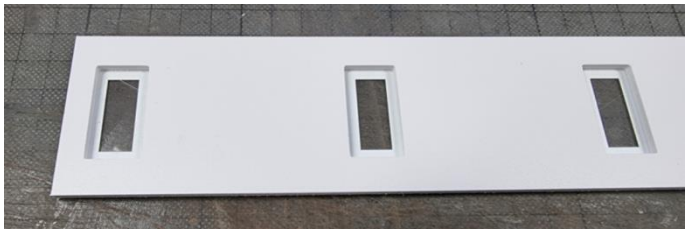
This is how it should look.

Now glue the windows to the side panels.

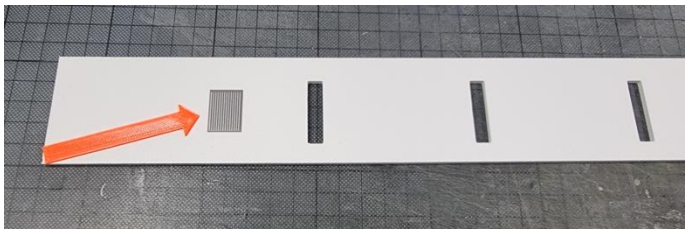
It is advisable to place the discs before bonding.

For the short side part, 3mm clearance (space for the ceiling of the overhang) must be maintained at the bottom to the lower edge.

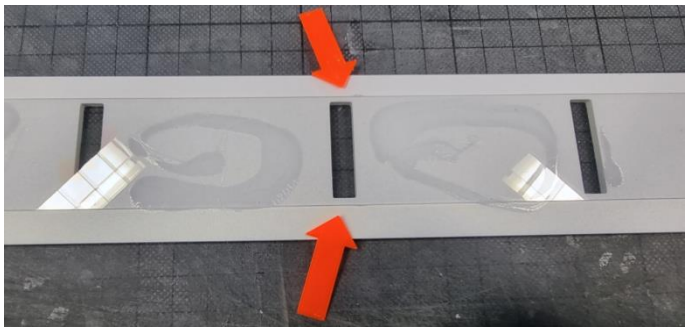
Measure out the glue well so that nothing spills into the windows.



As long as the glue has not cured, align the windows from the other side. The window frames should be centred in the window frame.

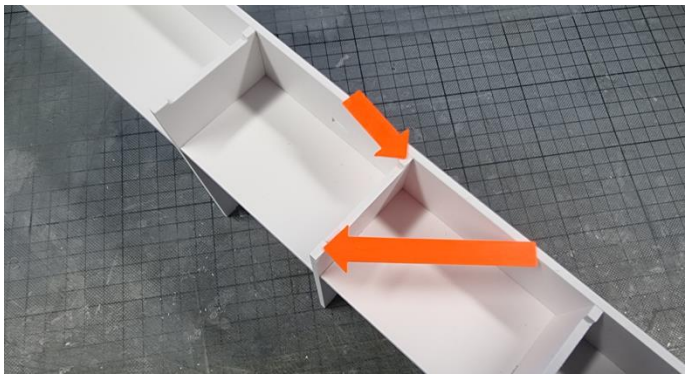


A ventilation grille is printed on the long side panel, the pane goes on the **other side** of the side panel, of course.



Centre the panes over the window cut-outs, i.e. the same distance to the window edge on the left and on the right.

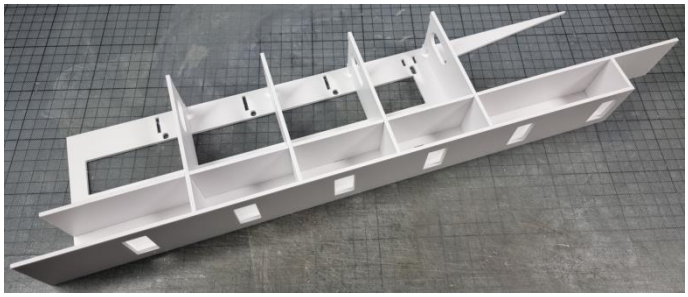
Align the short side piece with the inner structure as shown in the picture. On the right, flush with the ceiling of the overhang. On the left, the side part protrudes beyond the structure.



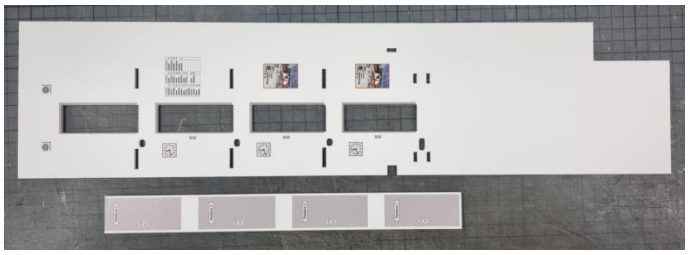
Apply glue to the long side and the knobs.

Before gluing on the side panel, please be sure to check the accuracy of fit.

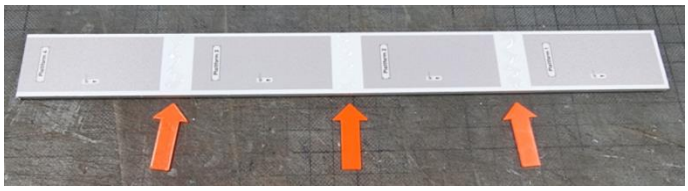
If the window pane collides with the studs, the studs can simply be "trimmed" a little.



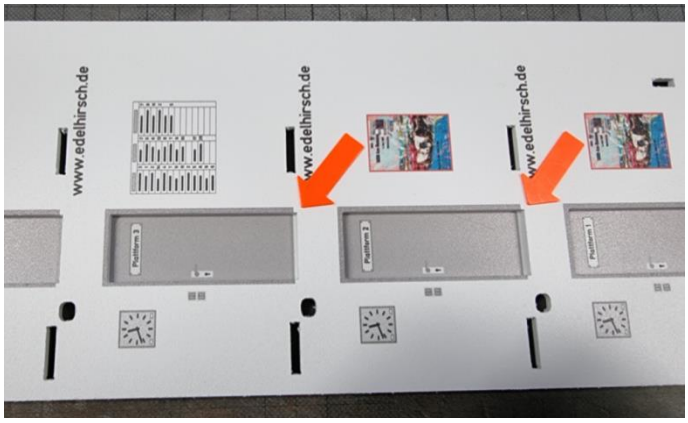
The side panel is flush with the inner structure at the bottom.



The front and the doors.



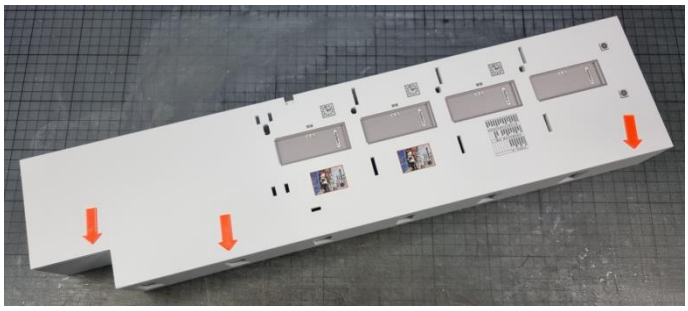
It is sufficient to apply glue to the light areas between the doors.



The doors are glued behind the front.

Make sure that the lower edge of the doors is flush with the lower edge of the door frame.

The edges will later be covered by the floor of the platforms.

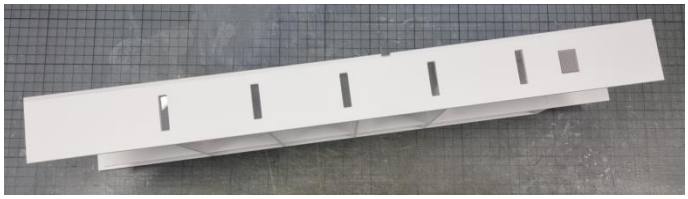


The front is glued to the inner structure.

It should protrude minimally at the marked edge (orange arrows).

The best way to feel this is with your fingers.

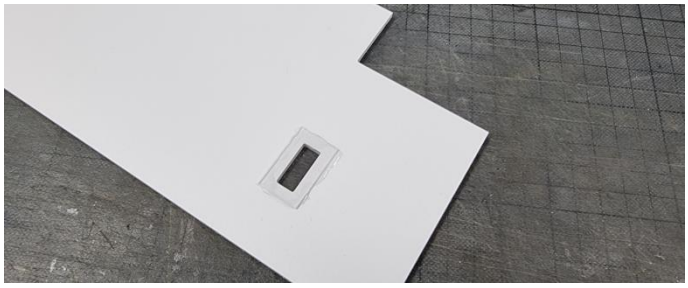
The protrusion is sanded off later. This achieves an absolutely clean edge.



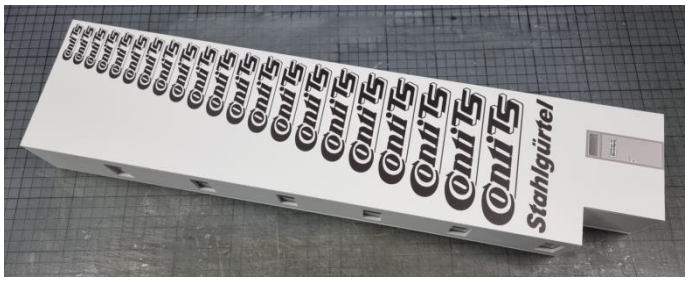
The long side part is glued to the long side of the inner structure.

The ventilation grille is at the bottom

The back consists of the plate and the small window.



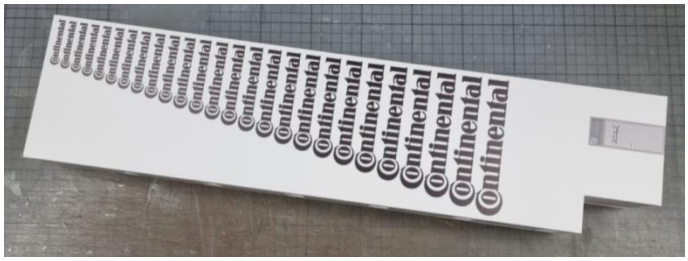
The window is glued behind the cut-out of the door.



Now the back can also be glued.

The back is also minimally wider than the building.

The back should protrude minimally on the left and right.



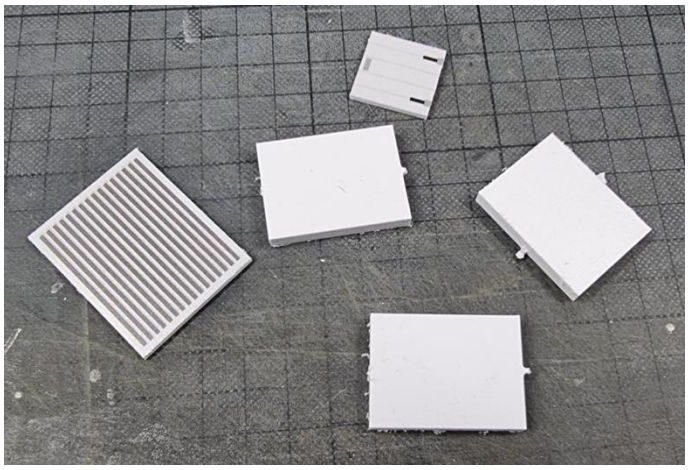
Above the "Conti TS", below the "Continental" version.

The edges are sanded clean again after a sufficient drying time.

Pre-sand with the 150 block, then finish with the 320.

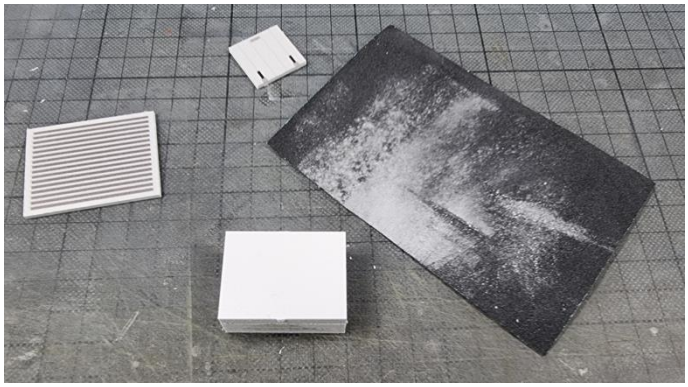
The result is a beautiful matt surface. This is how it should be.

Removable roof

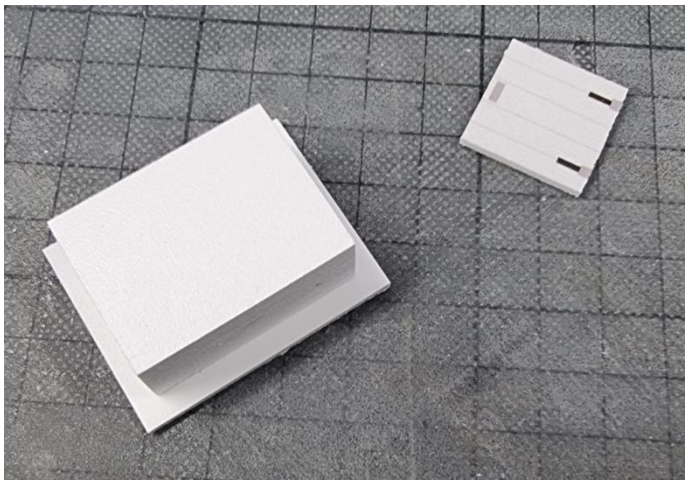


These parts are needed for the roof.

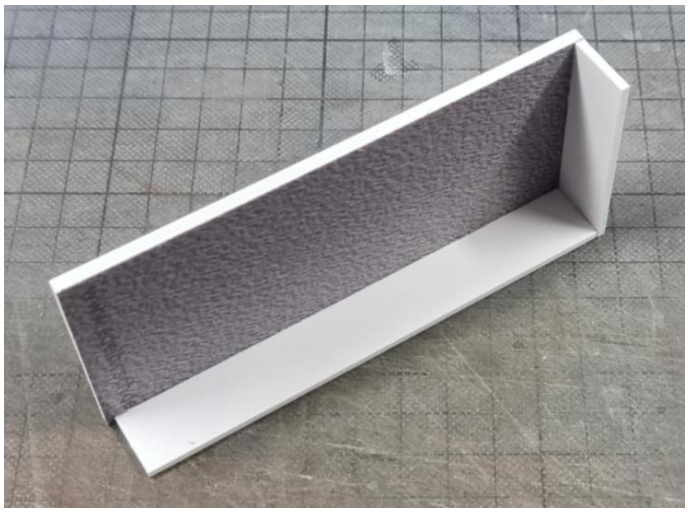
First the 3 unprinted parts (5mm thick) are glued flush to each other ....



.... sand the sides of the block cleanly.



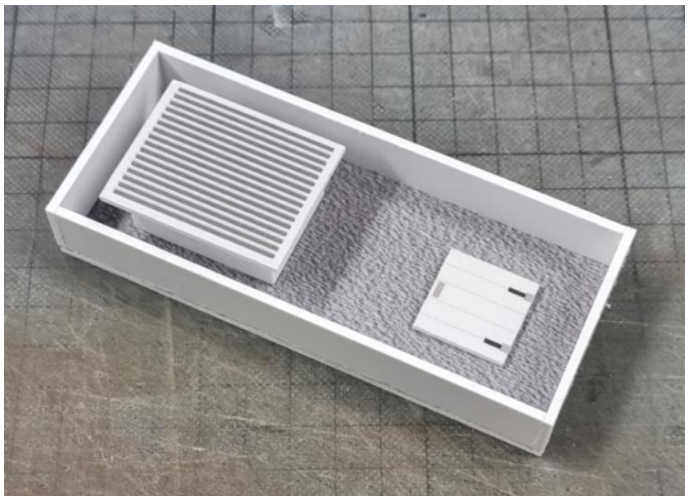
The block is glued under the "ventilation grille".



The side walls are glued to the floor.

To do this, you can also place the base vertically on the work surface.

The side walls only serve a visual purpose (thicker walls). You can also leave them out. However, if you add them, you have to expect more extensive sanding work so that the roof element does not get stuck in the tower.



The ventilation unit and the floor hatch are glued on.

The unit must slide smoothly into the tower.

Please do not press in with force!!

It is better to use sandpaper again.

It must be possible to remove the roof again later in order to access the fuses of the platforms.

This is how it should look.

The end faces can still be sanded.

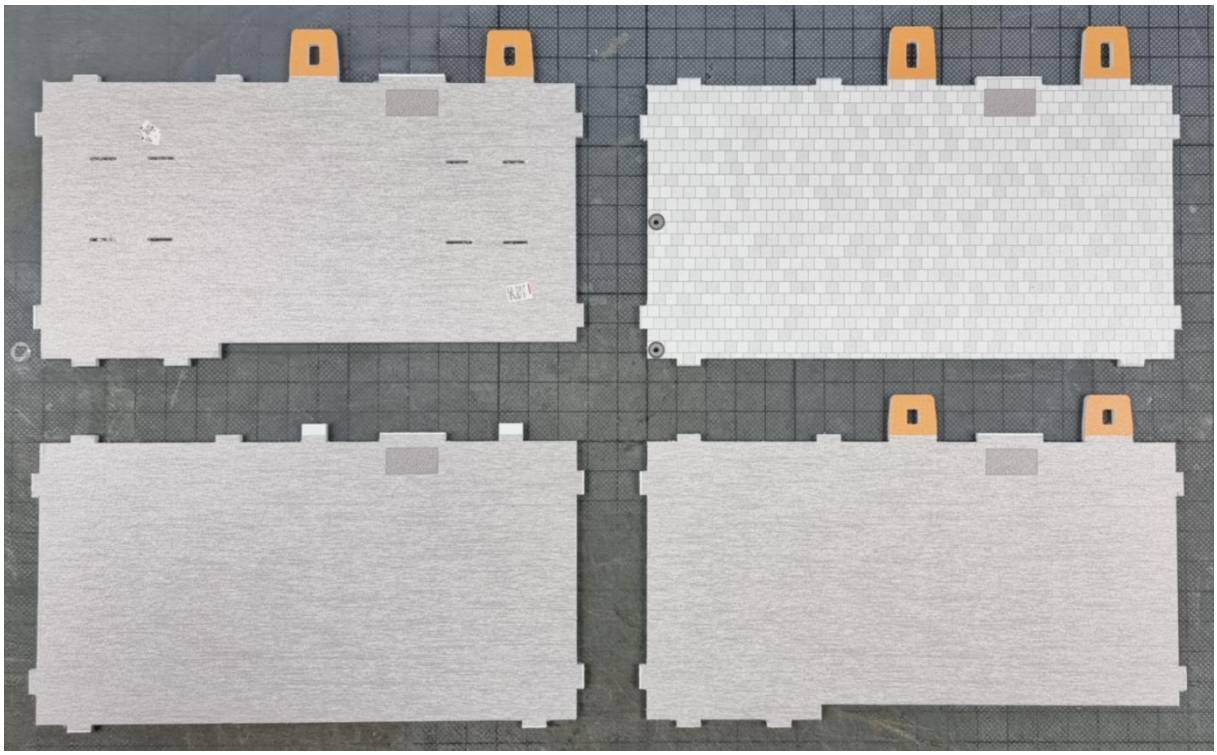
If the roof element does get stuck, you can use a suitable rod to carefully push the roof out from below through the cable grommets.

Platforms

Each platform consists of a floor slab and a ceiling to the lower level. In the case of the lowest level, this is the "soffit" of the platform wing.

Of course, the interior walls (3mm), the exterior cladding (2mm) and the windows are still in place.

Floors



Platform 1: bottom left, linoleum floor + doormat

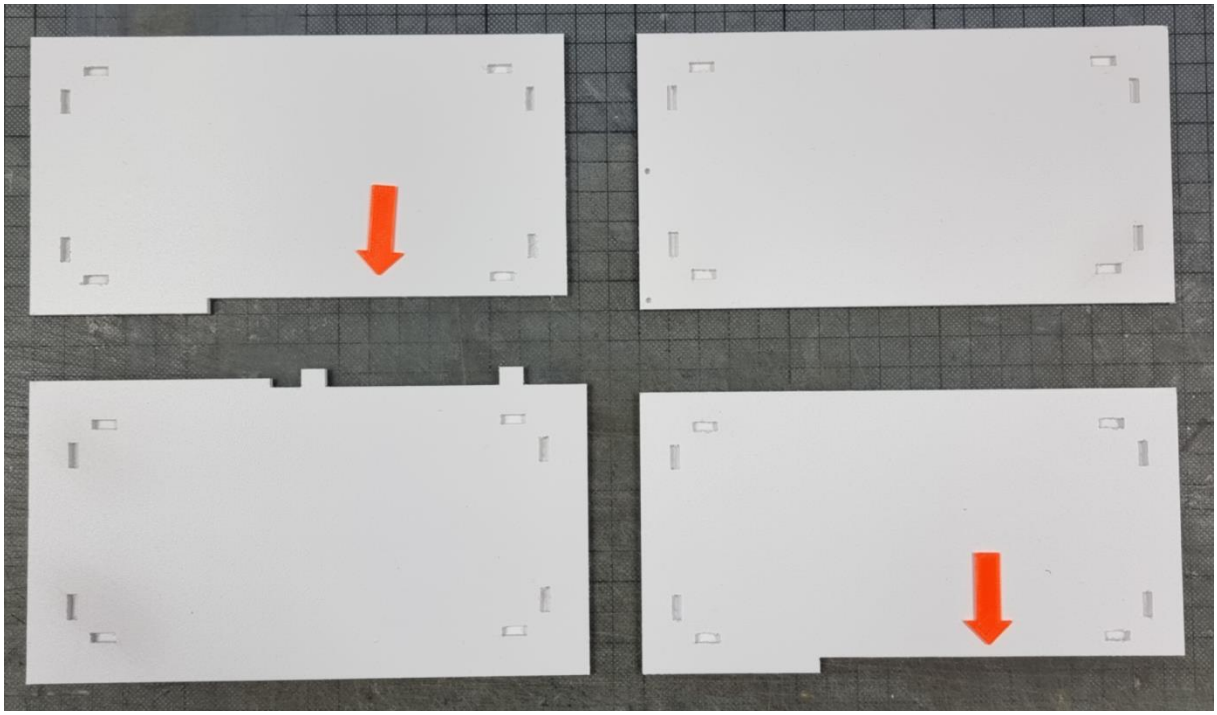
Platform 2: bottom right, linoleum floor + doormat, orange flaps with small holes

Platform 3: top left, linoleum floor + floor mat, orange tabs with centre holes, note on floor, grooves for separating discs

Platform 4: Top left, plaster + foot mat, orange flaps with large holes, 2 mast discs

Ceilings

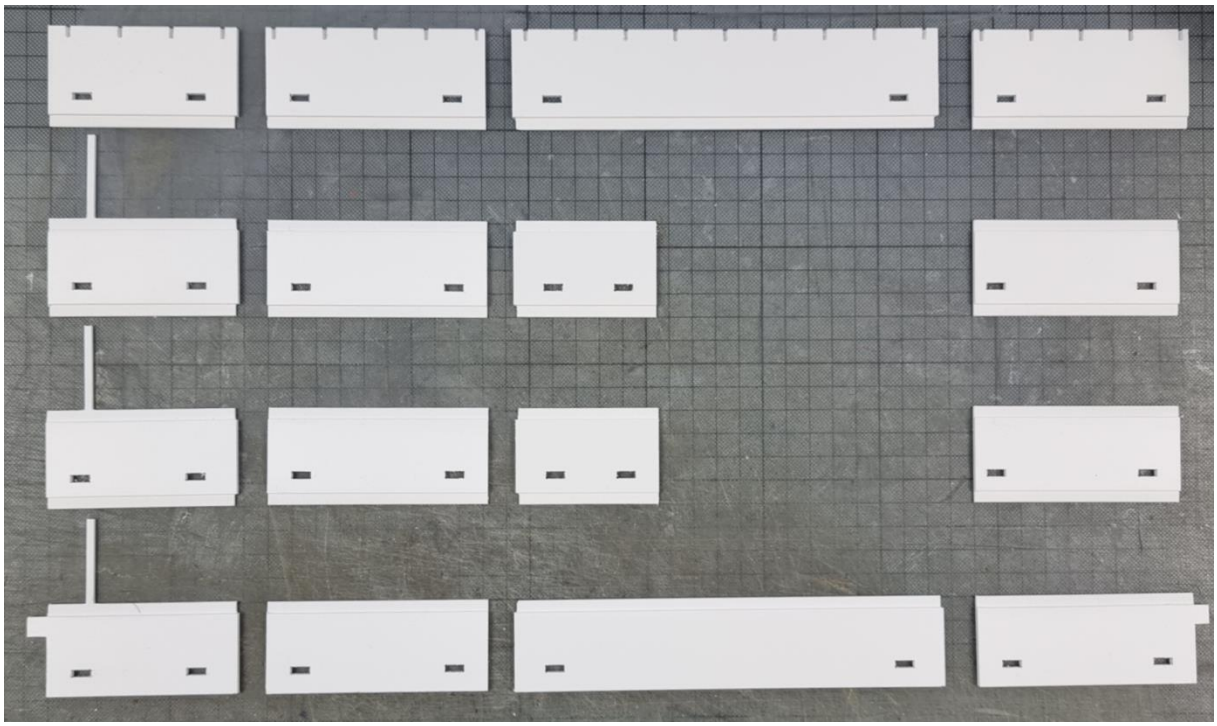
The floors are glued to the ceilings like a sandwich. Lighting elements (cables) can be installed very well in this construction.



Plattform 1:	bottom left with tabs
Plattform 2 / 3:	bottom right and top left, the components are identical, the orange arrow points to the recess for the display panel
Plattform 4:	top right, 2 holes for the masts

Inner walls 3mm

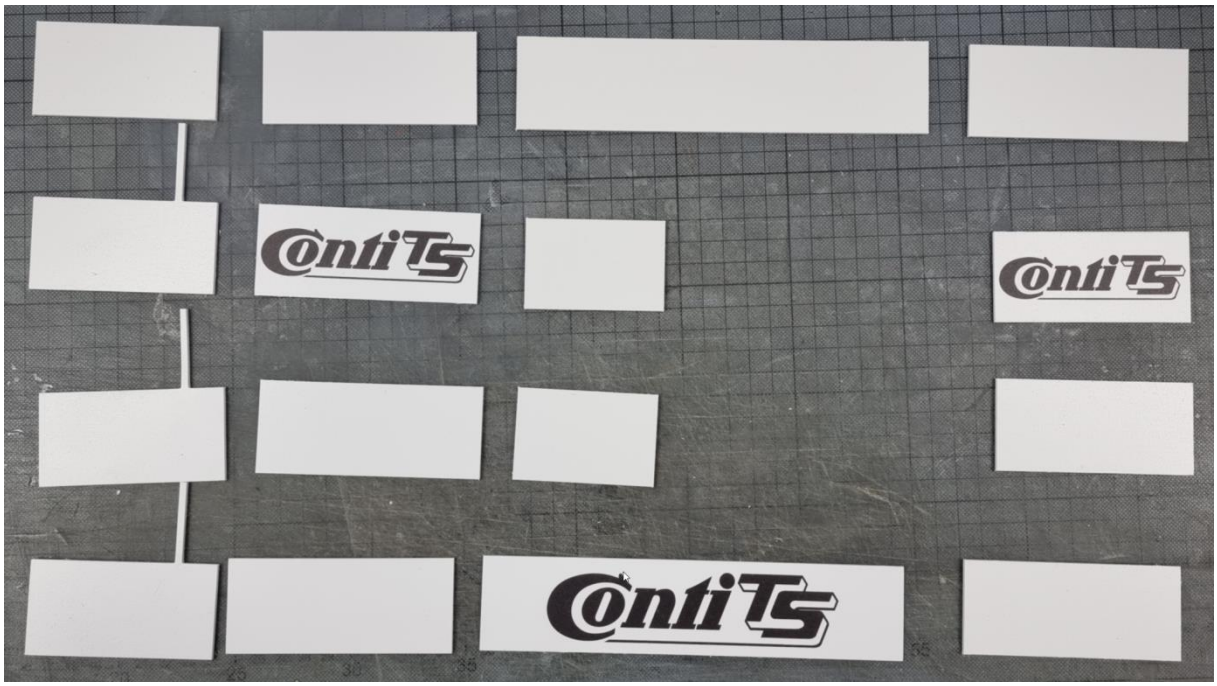
The clock fits in the free space.



Plattform 1:	lower row, only one groove for the windows and tenons on the right and left element
Plattform 2 / 3:	the two middle rows, the elements of the 2nd and 3rd row are identical
Plattform 4:	the upper row, all elements contain the grooves for the upper railing.

External cladding 2mm

Again you can see the place of the clock.



Plattform 4: 1st row top, height of elements = 42mm

Plattform 3: 2nd row, height of the elements = 41mm

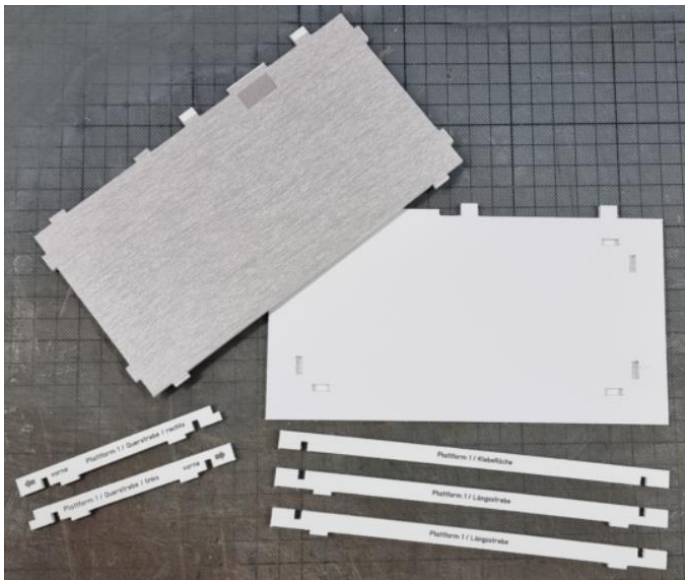
Plattform 2: 3rd row, height of the elements = 41mm

Plattform 1: lower row, height of the elements = 41mm

Windows

The position on the tower is printed on the windows.

Platform 1



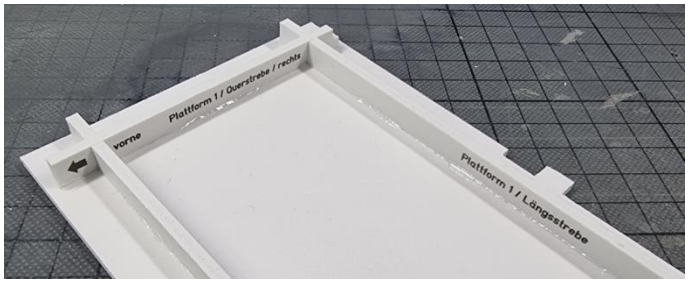
These components are needed for the bottom of the lower platform.

The lower platform is also the only one that is firmly glued to the tower.

All other levels can be removed for "population" with figures or furnishing.

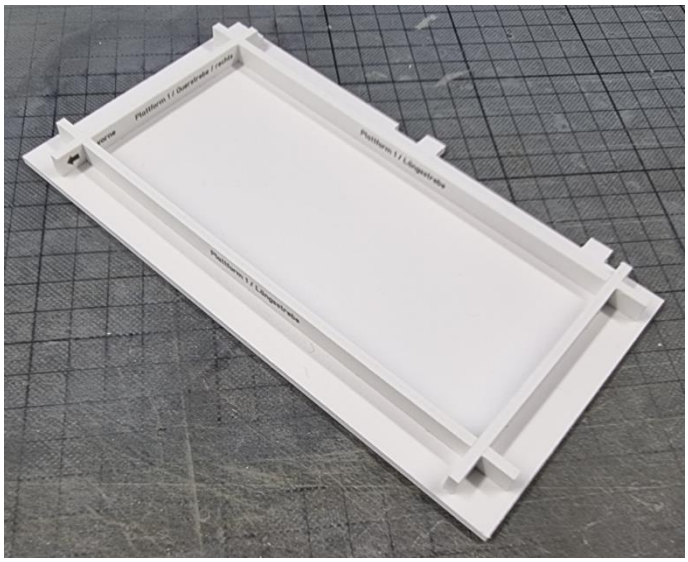
First the longitudinal struts are glued.

The struts snap into place, this also results in the correct position.

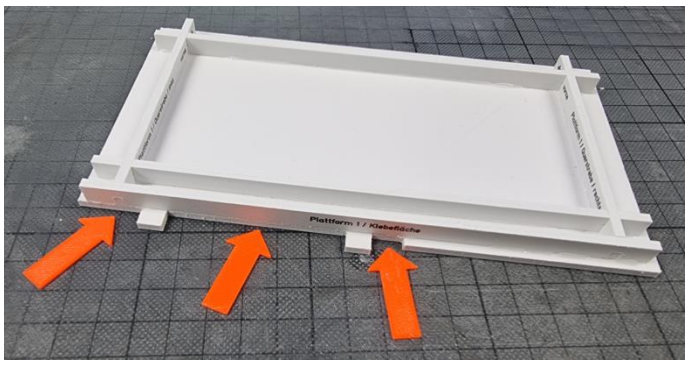


Then glue the cross struts.

Observe the direction of the arrows.



This is how it should look.

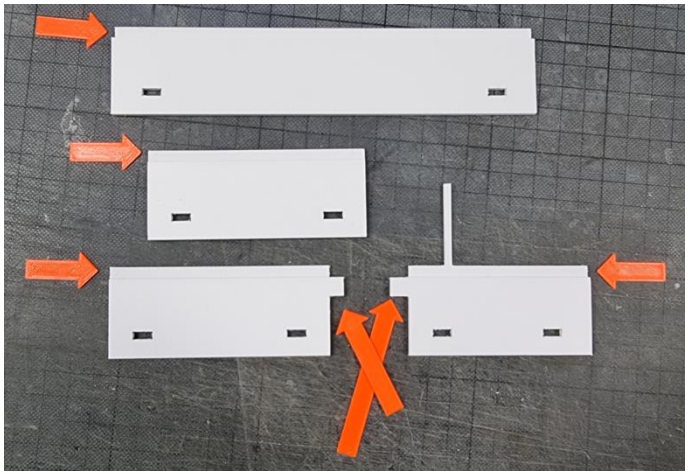


Now glue in the strut „Plattform 1 / Klebefläche".

Make sure that the element is flush with the bottom edge (orange arrows).

This adhesive surface is only intended to strengthen the hold of the platform on the tower when it is glued on.

The assembly can now be put aside for the time being.

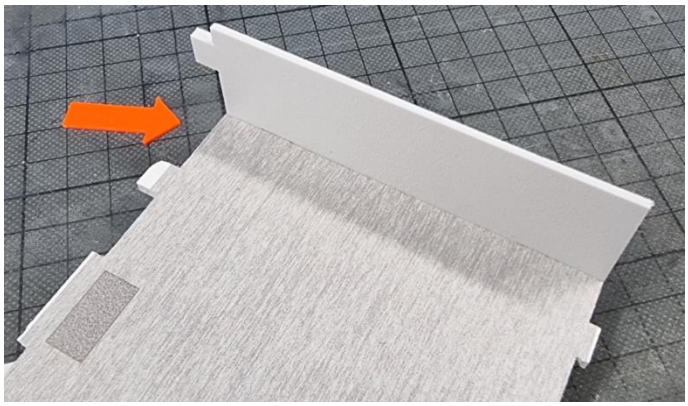


Continuing with the interior walls.

On the left, the 3 mm elements for the interior walls.

The 4 interior walls have a milled edge at the top for the windows.

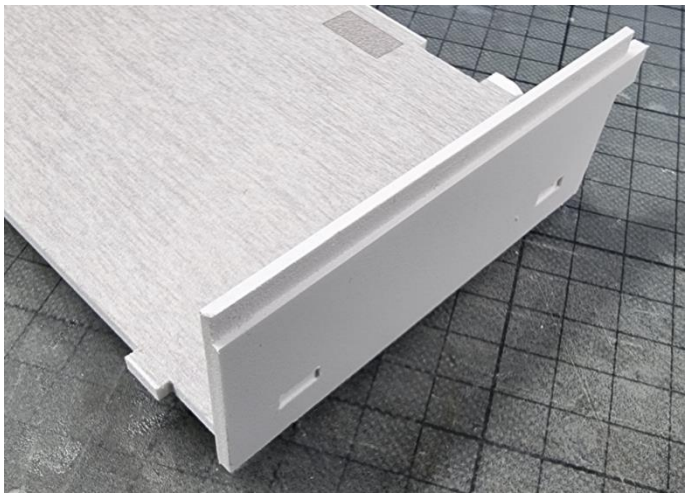
The two lugs are to increase the hold on the tower again.



Continue with the floor of platform 1 and the right-hand inner wall.

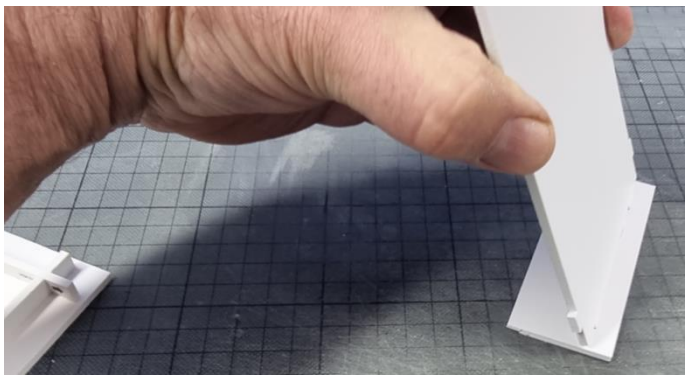
The parts are simply glued together, the position again results from the grooves and pegs.

The wall should be flush with the floor at the back and front.



This is what it looks like from the outside.

Here you can also see the milled edge for the window panes.

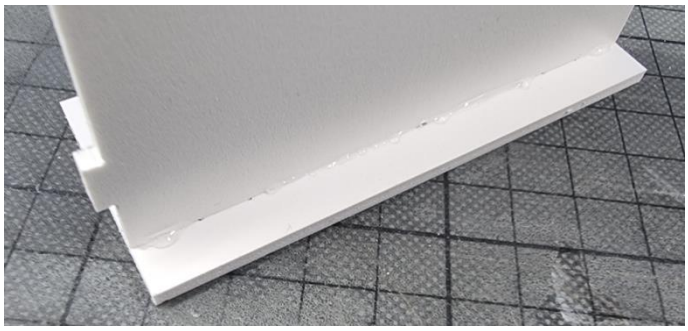


Note:

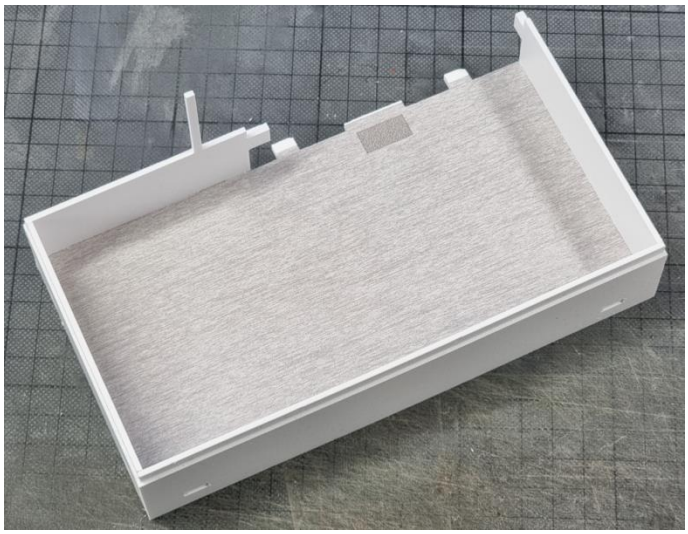
The bottom can be inserted at an angle when gluing it in place.

This pushes out excess glue on the underside (see next picture).

Unfortunately this does not work everywhere.



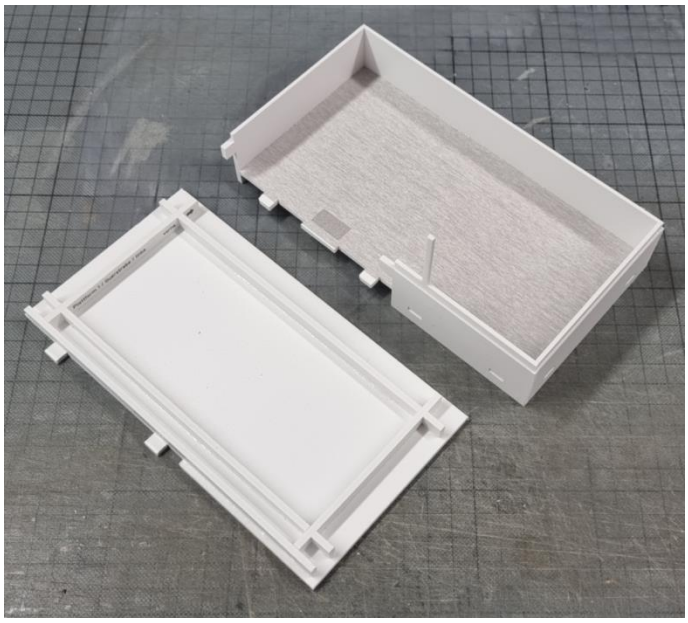
This is what it looks like. The adhesive is on the underside of the panel and not on the floor.



Here is the floor with all the interior walls.

Important: The milled edge must always be on the outside.

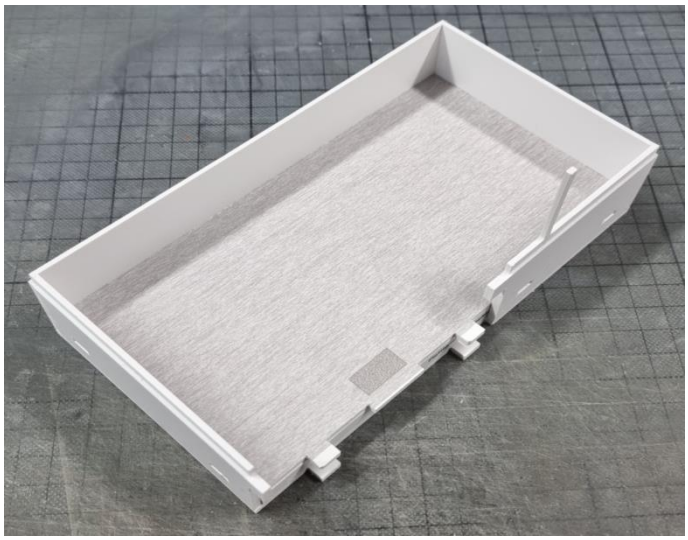
All edges must be flush. Unfortunately, there are manufacturer-related tolerances in the panel thicknesses. If an edge really does protrude, simply sand it flush.



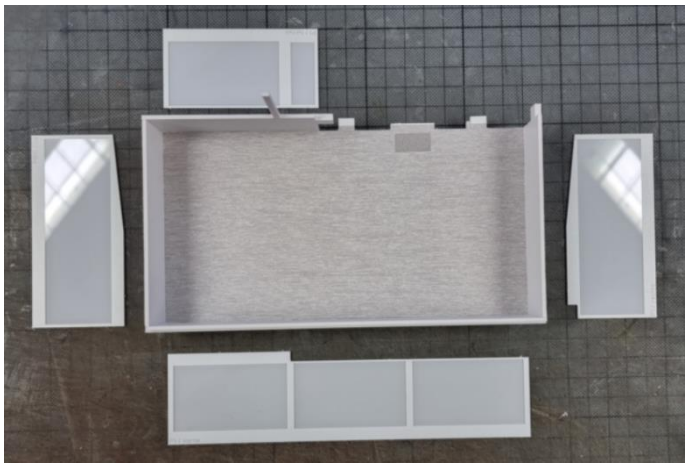
If you want, you can now glue and wire LEDs into the "soffit".

With a car you would say "wedding".

Both assemblies are placed on top of each other and glued together.

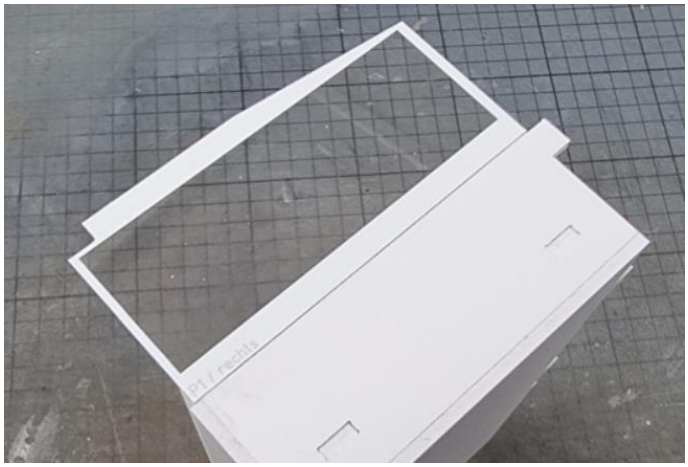


This is what the lowest platform looks like now.



The windows for platform 1 are prepared.

ALL side windows are bevelled towards the rear, which makes it easier to insert and remove the platforms later on.



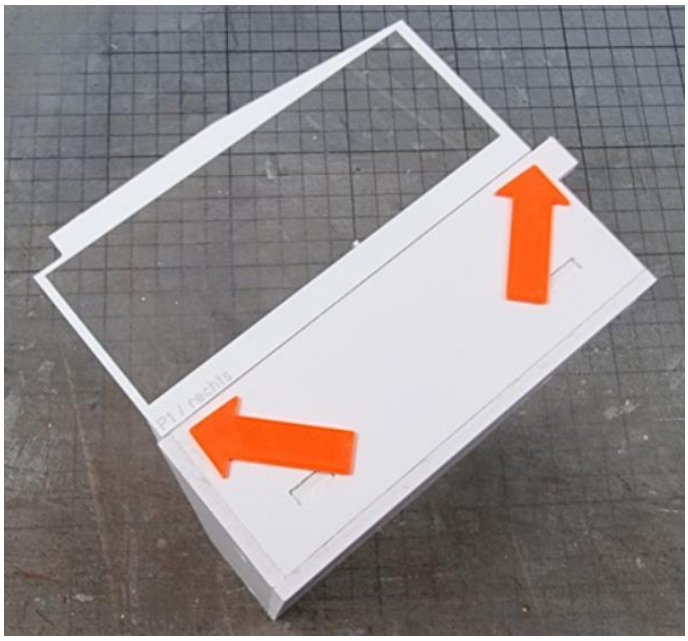
We start again on the right.

The inscription is always on the outside!

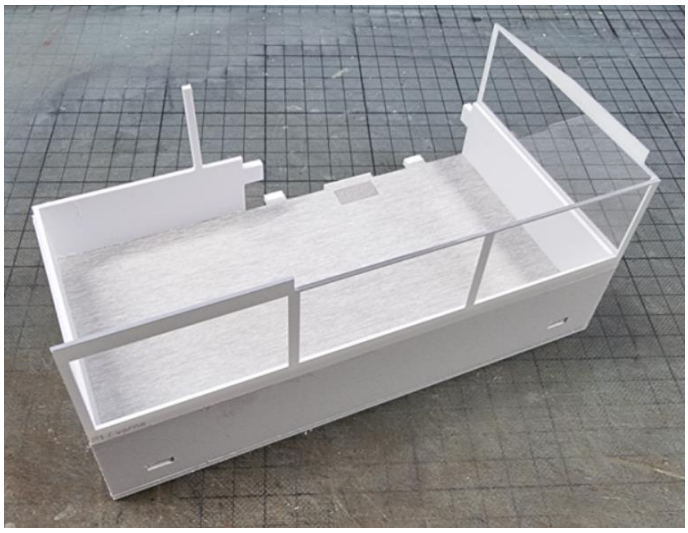
The routing edge for the glue is 5 mm wide, which should be enough for a nice glue bead.

Possibly spread the bead, then no glue will spill out of the surface onto the pane.

I remove the protective film completely, but you can also just peel off a piece for the adhesive surface.



ALL side windows are flush with the inside wall on the left and right.

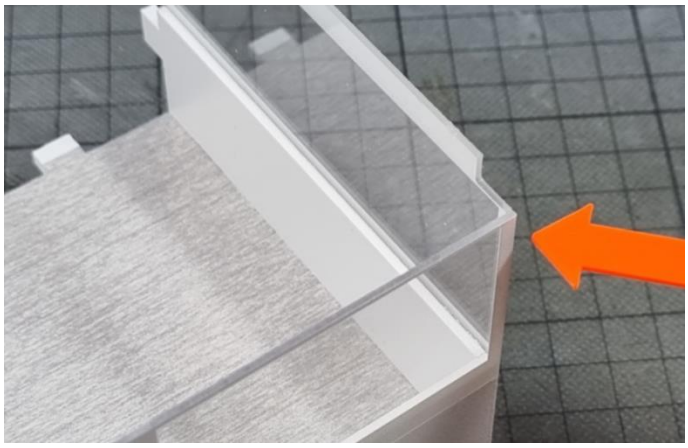


Continuing with the windscreen.

Apply the bead of adhesive to the milled edge, spread and glue on the window.

The windscreen is flush with the outer sides of the side windows.

This is actually self-evident from the dimensions.

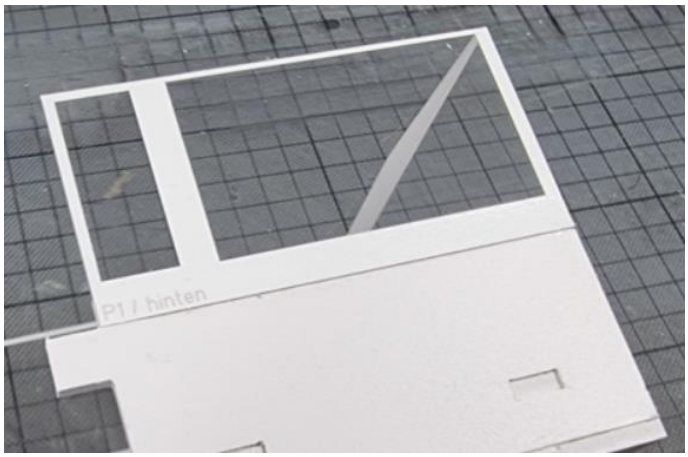


Clean gluing of the windows greatly enhances the model.

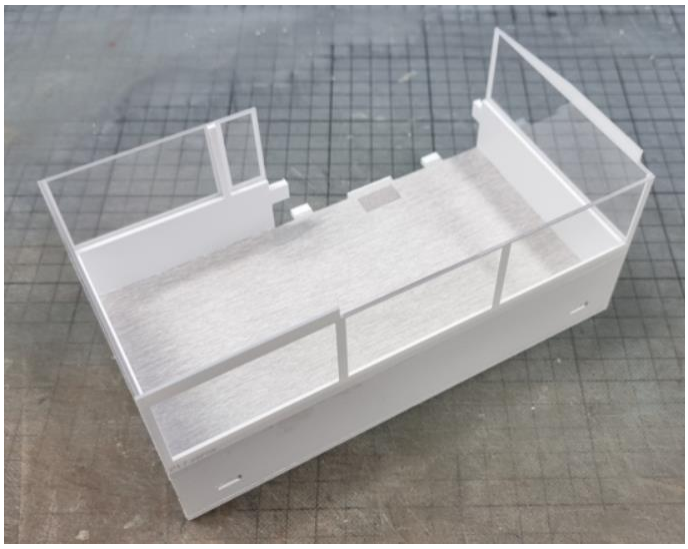
I have refrained from gluing the vertical edges (i.e. window to window).

If you like, you can glue the discs at the corner with UHU-Hart. To do this, simply bend the front pane slightly forward and apply glue to the edge with a toothpick. Hold together briefly until the glue takes hold.

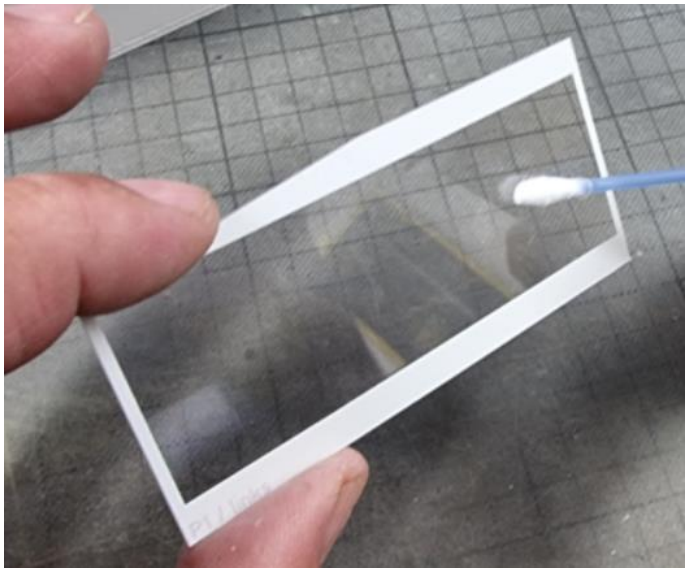
Continue with the left window and ....



... the rear window.



This is what the lowest platform looks like without the outer cladding.

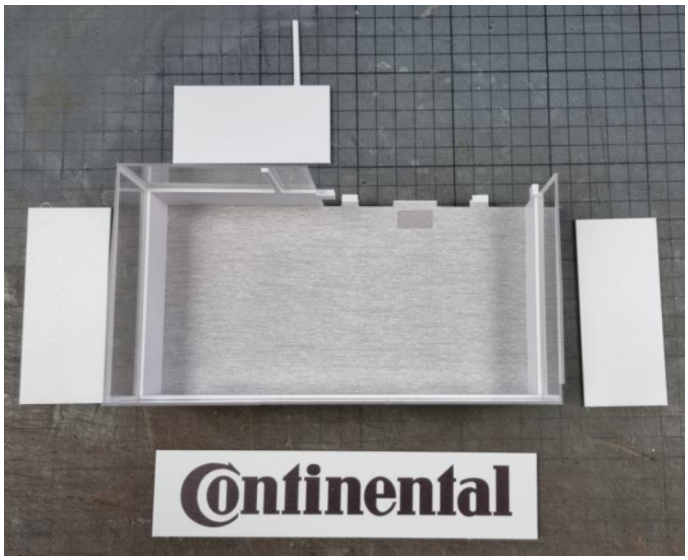


If you have nevertheless "fingered" the window, the best way to clean the imprint is with a dry Q-tip.

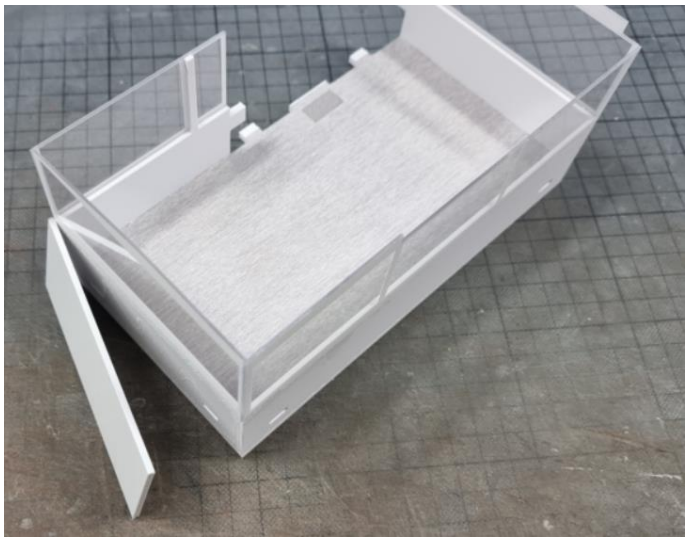
Dust can be removed quite well from the make-up utensils with a fine brush.

Kitchen towels should be avoided, they scratch the surface.

Also be careful with cleaning agents, especially on the printed side.



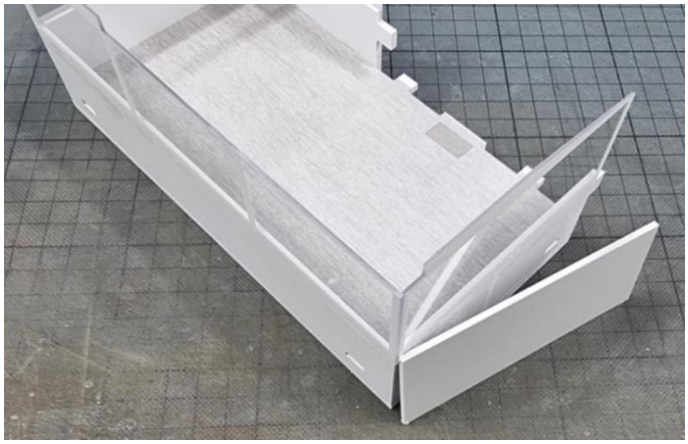
The exterior cladding.



Continuing with the 2 mm outer panels.

For all platforms, the side parts are glued first.

Here the left side.



And the right side.

Sand any protrusions flush again.

Stick on the front with the lettering and the back. Sand any protrusions flush again.

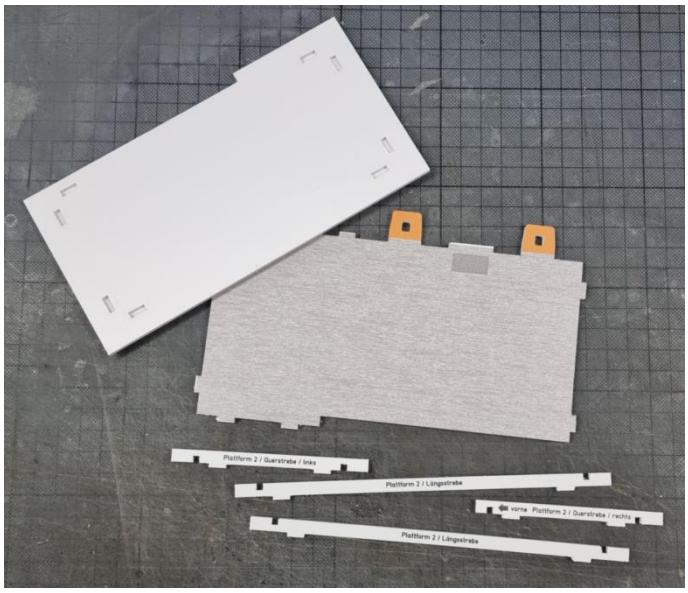
The lower platform from behind.

Now the lower platform can be glued to the staircase tower.

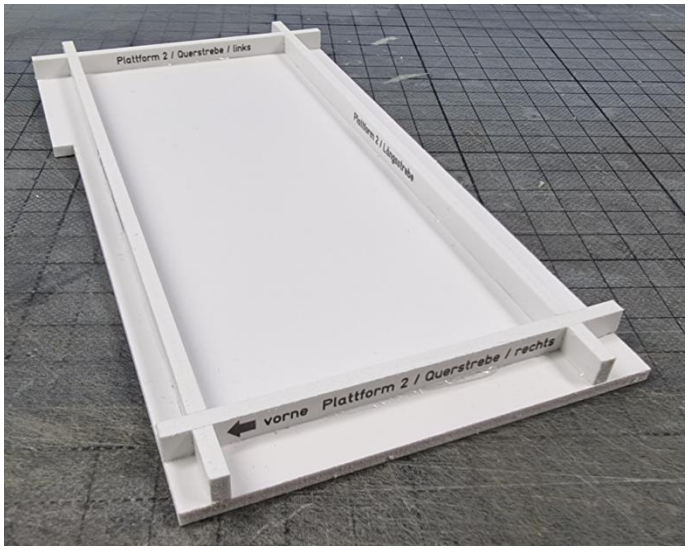
Also apply glue to the 2 tabs that reach into the wall of the staircase.

This would complete the 1st platform.

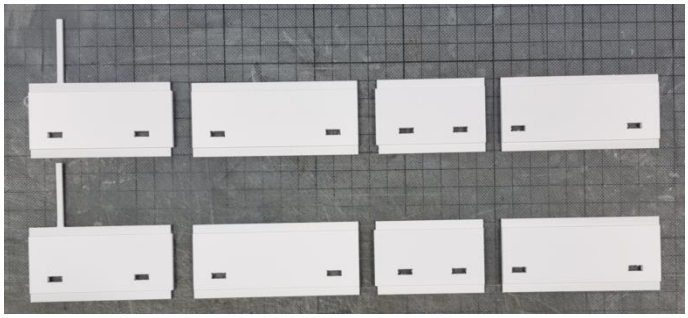
Platform 2



The parts for the 2nd platform.



Again, glue on the longitudinal struts first, then the cross struts.

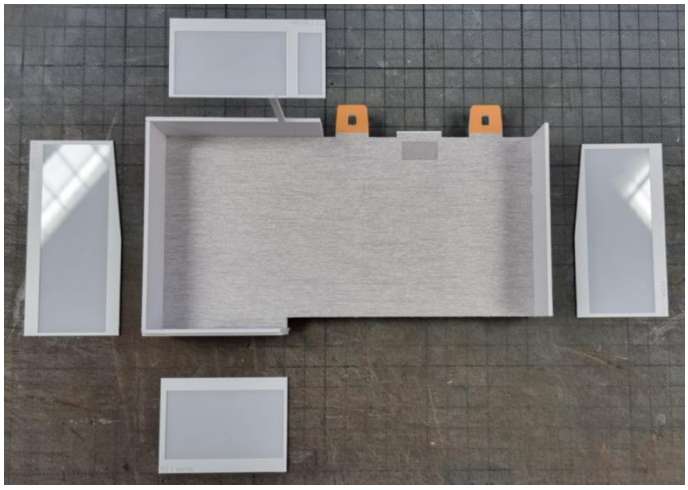


The inner walls for platform 2 and 3 are the same.

On the 2nd platform the invited guests were entertained.

Guests had an exclusive view of the back wall of the scoreboard at the event ☺

This explains the cut-out in the front.



The window installation goes on as usual.

On the left and right side windows you can again see the slope to the rear.

The position of the slope results automatically from the heights of the front and rear pane.

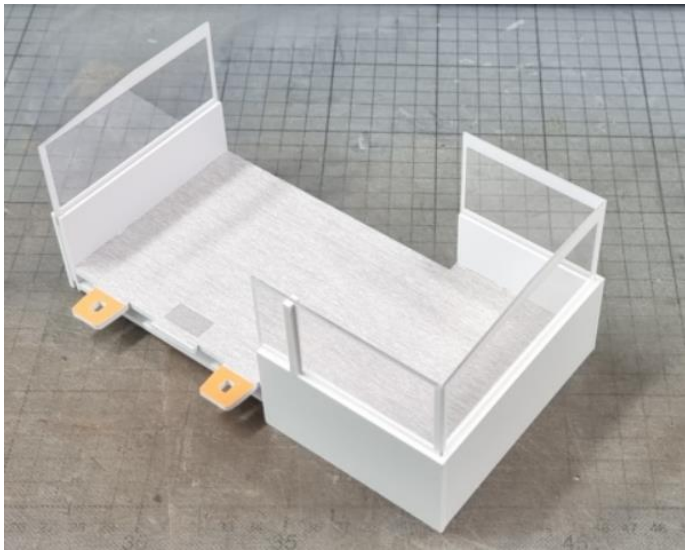
Again, it helps to hold the discs against each other once beforehand.

The 2nd platform with glued-on panes.

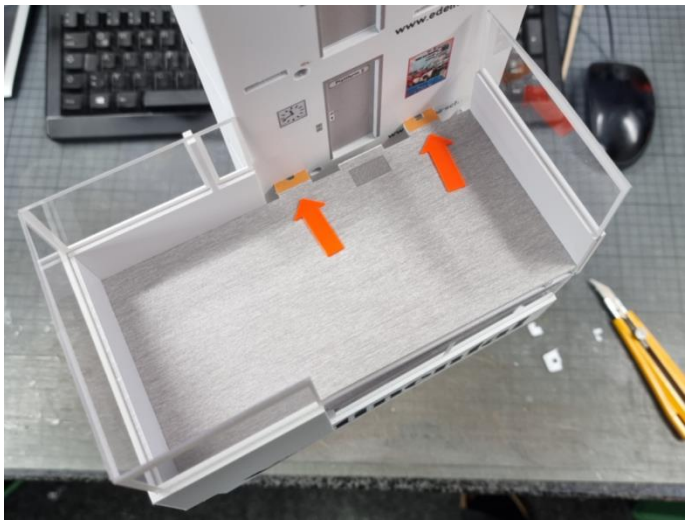
The 2nd platform does not contain any printed exterior panelling.

As with platform 1, start again with the left and right side panels. Then sand, glue and sand the front and rear panels.

View of the platform from the front ....



... and from behind.



The 2nd platform is pushed into the staircase tower with the 2 orange tabs.

Sliding in the platform is not easy, it may be that the window panes "resist" it.

Please be patient, gently push the platform into position and see where the discs impale themselves.

In the kit, the recesses for the tabs should be large enough.

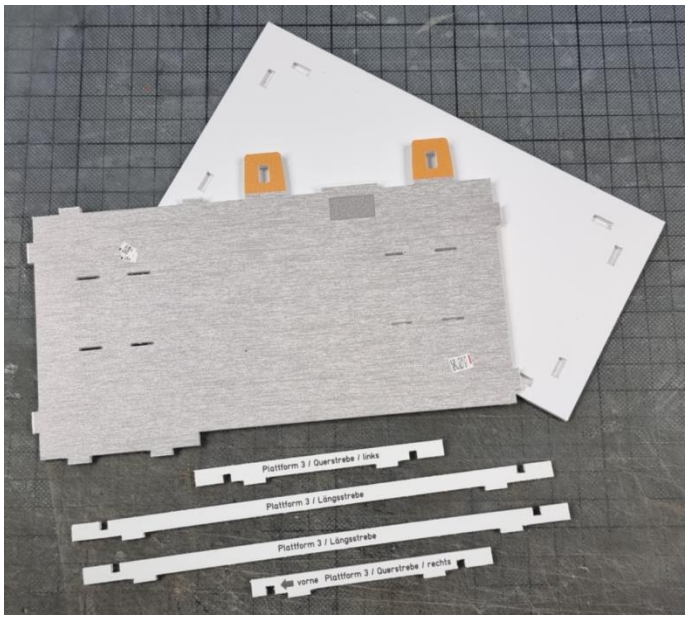
Due to variations in the thickness of the material, it can still happen that the tabs jam a little, in which case it is sufficient to slant the tabs slightly at the bottom.

Of course, this can also be done with sandpaper.

Here the platform is engaged.

This step and the sanding have given the kit a difficulty level 3, i.e. "not suitable for beginners".

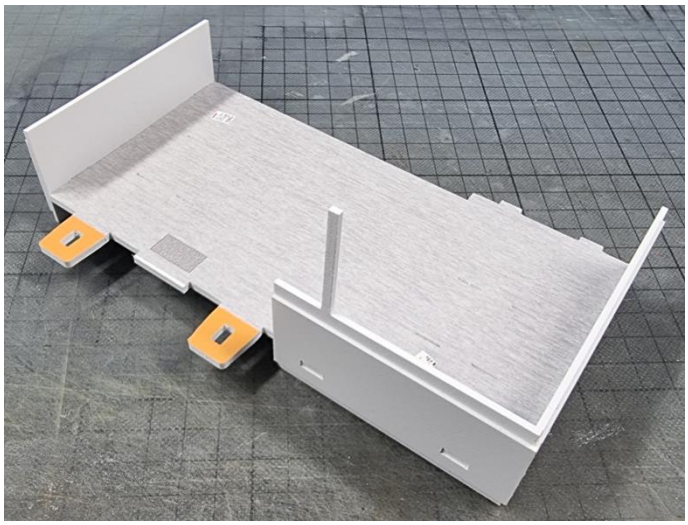
Plattform 3



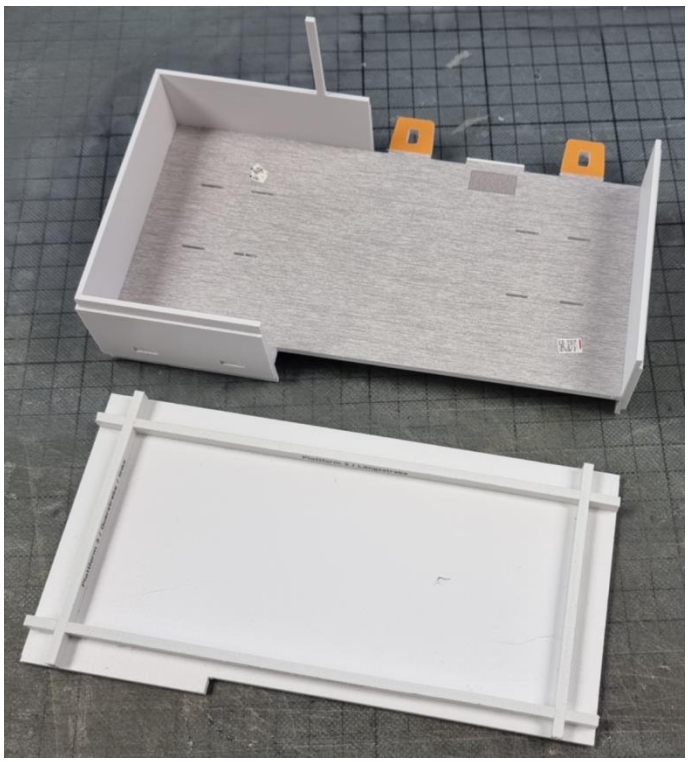
Only 2 platforms left ☺

Here are the parts for the floor.

Nothing new!

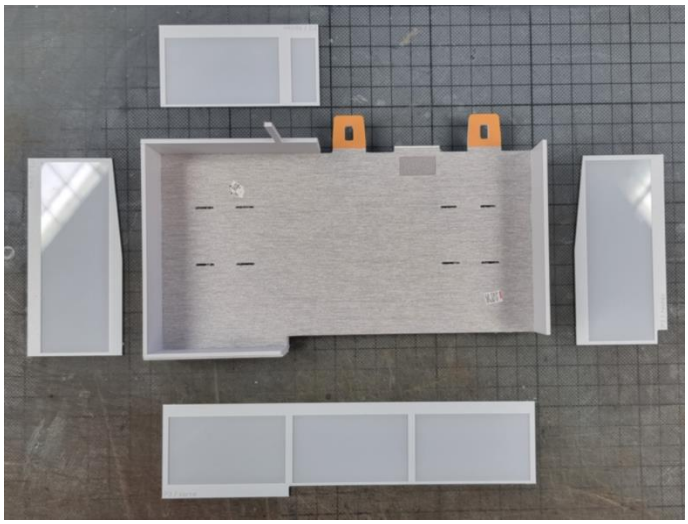


Not here either.



Still not.

Only on the floor are discarded scribbles.



These discs are needed for the 3rd platform.

The windscreen hangs "in the air" on the right.

I fixed them to the side window with some UHU-Hart.

Please apply the glue with a toothpick.

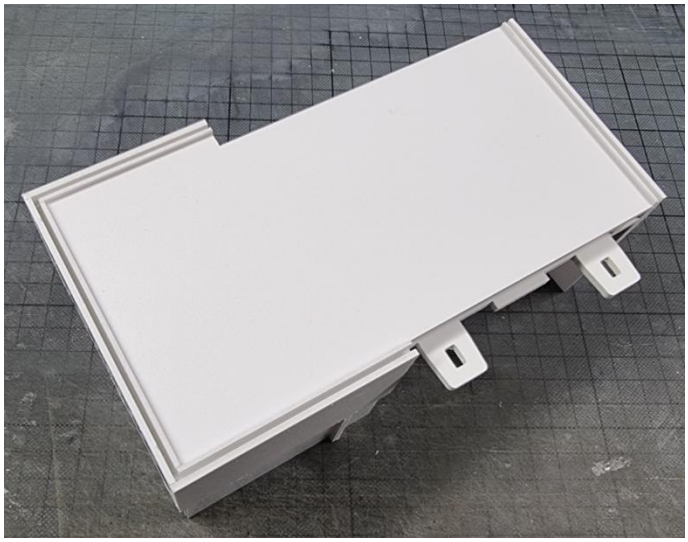
On the 3rd platform, the left and right outer panelling is printed.

Otherwise nothing new.

Note: The picture still shows the old windows. In your kit these are already printed.

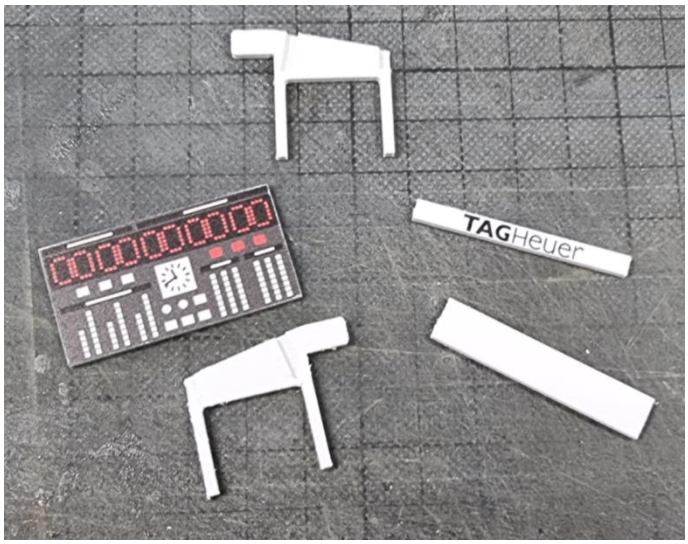
The right outer cladding.

Note: The picture still shows the old windows. In your kit these are already printed.



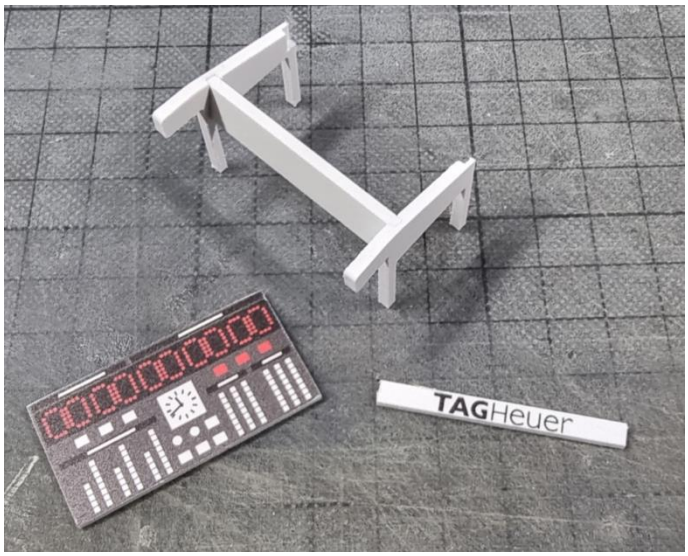
Here is a picture of the underside of a platform.

When pushed into the tower, the groove picks up the discs of the platform below.

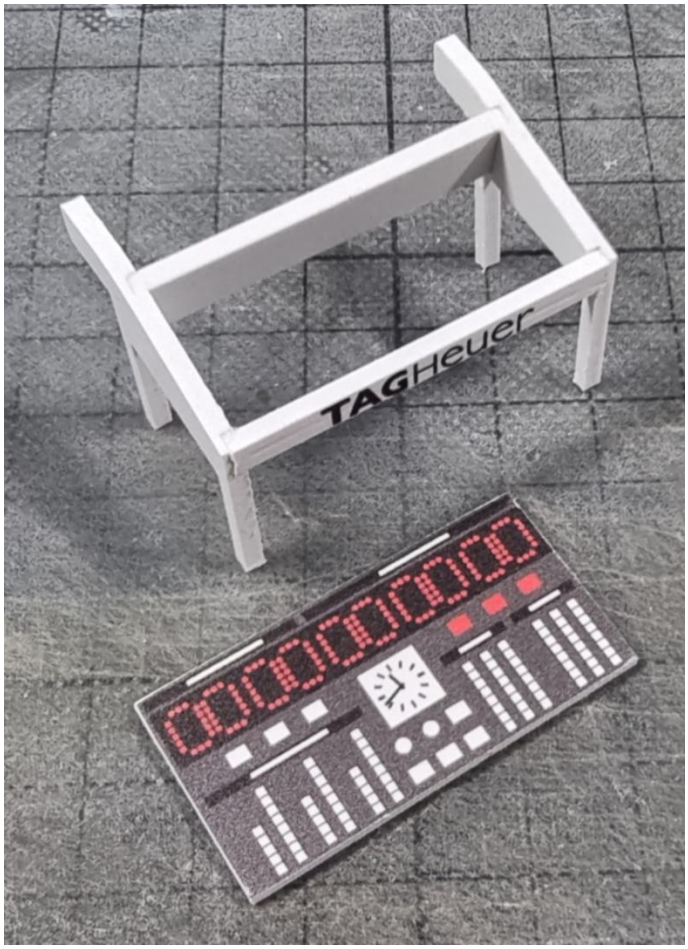


But here we go.

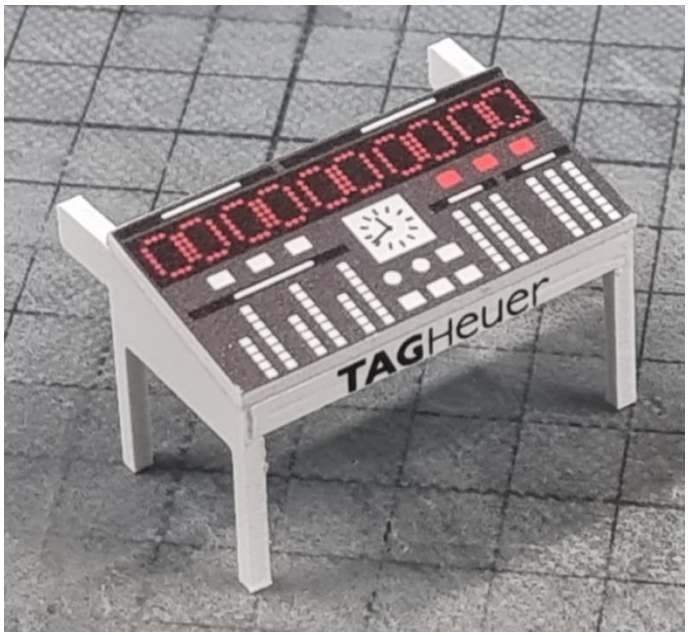
2 sheep, a control panel and 2 small elements are the basis for the control panel for the display board in the Conti Tower.



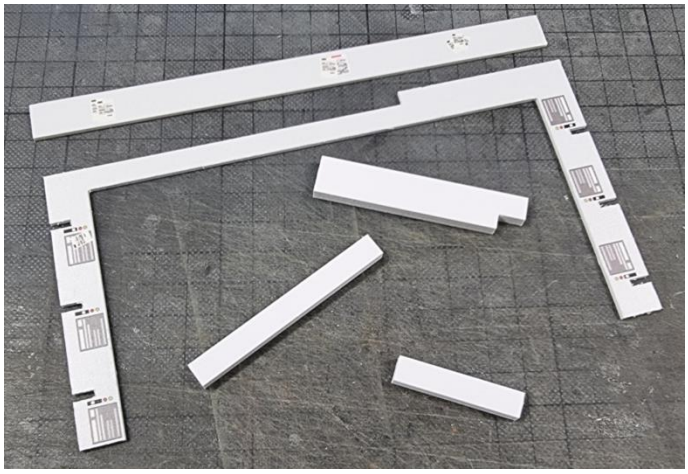
The side parts are connected by the horizontal element.



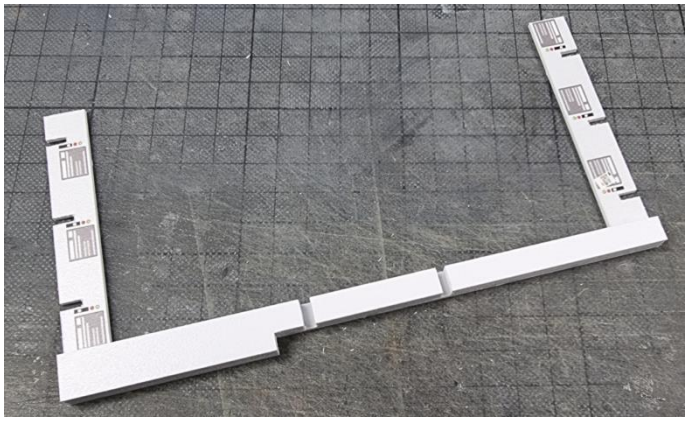
The narrow, printed element is glued into the front side.



Now glue on the desk and the control panel is ready.

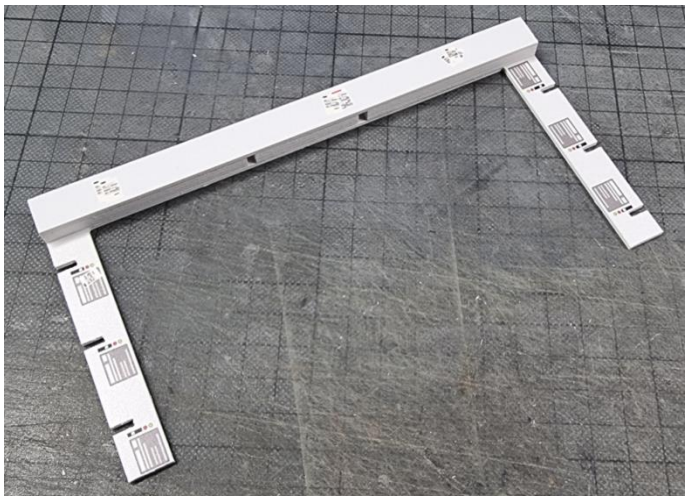


The parts for the press room.



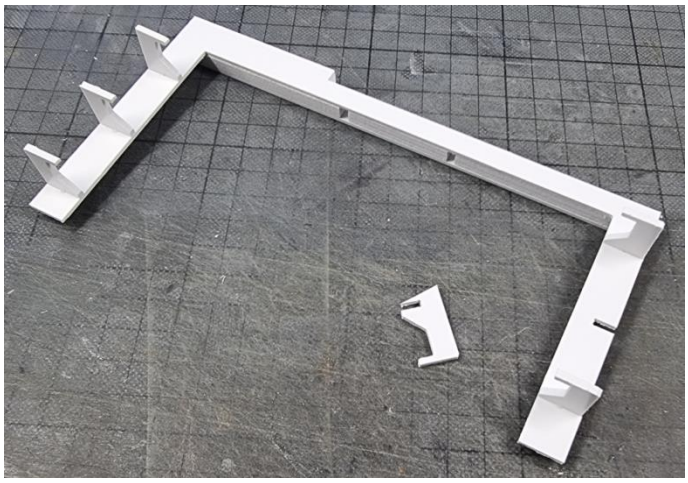
The 5 mm thick elements are glued onto the top of the large, U-shaped element.

The elements on the left and right are flush with the outer edges, the middle element is glued in so that the distances on the left and right are approximately the same.



Glue the long element to the work surface as shown in the picture.

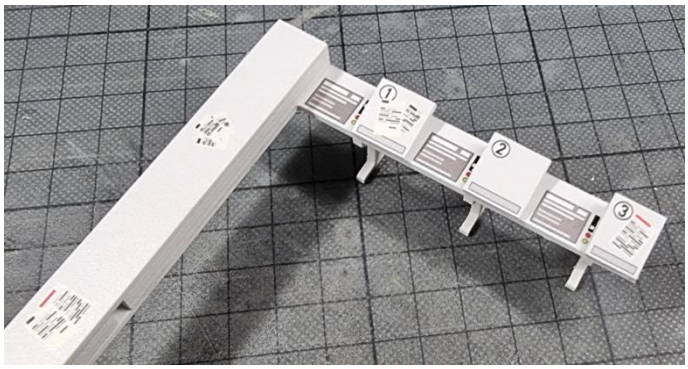
The inside of the U-shape should be flush.



Insert the feet into the work surface and glue them in place.

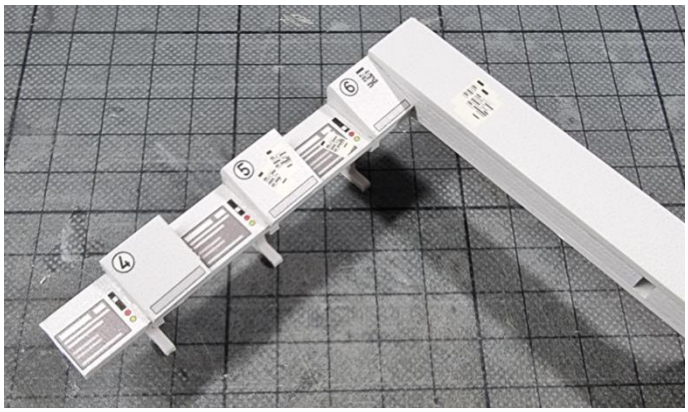
There are a total of 6 workplaces for the reporters.

The boards with the numbered workstations are glued to the table feet that are slanted at the top.



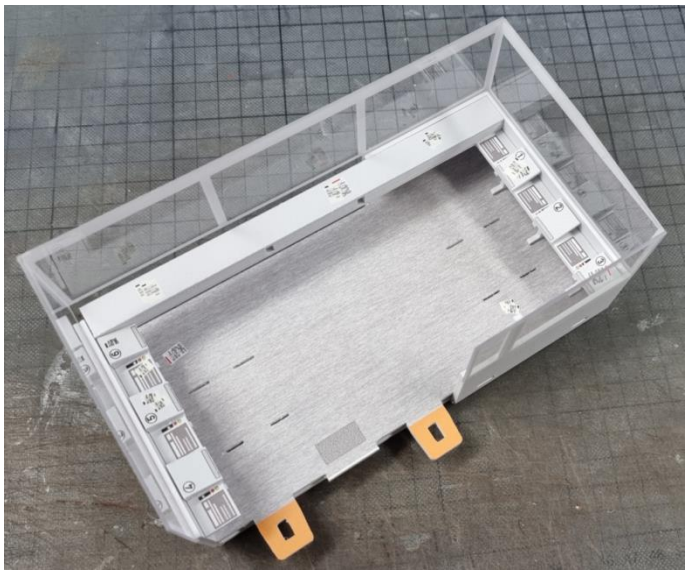
This looks like this on the right.

The left side of the workstation is flush with the matching foot.



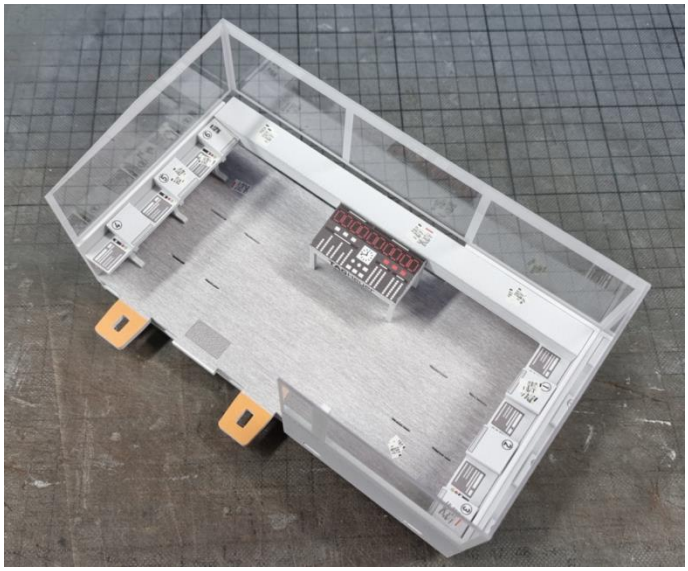
Here is the left part of the press section.

The left side of the workstation is flush with the associated base.

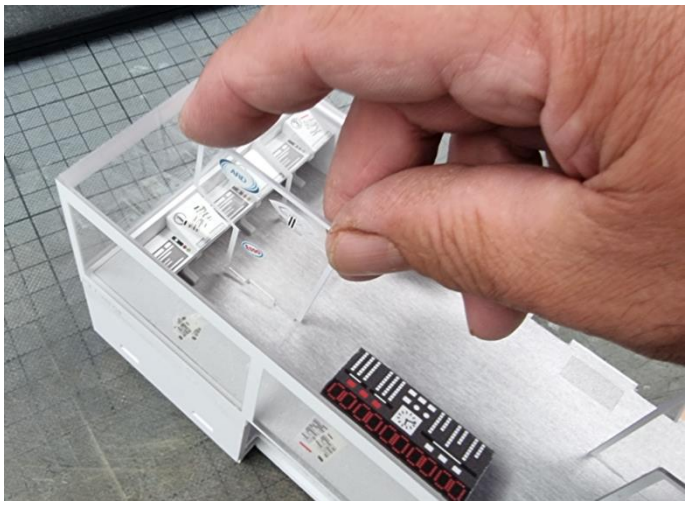


Now the workstations can be pushed into the platform.

The assembly should be very easy to slide into the interior of the platform.

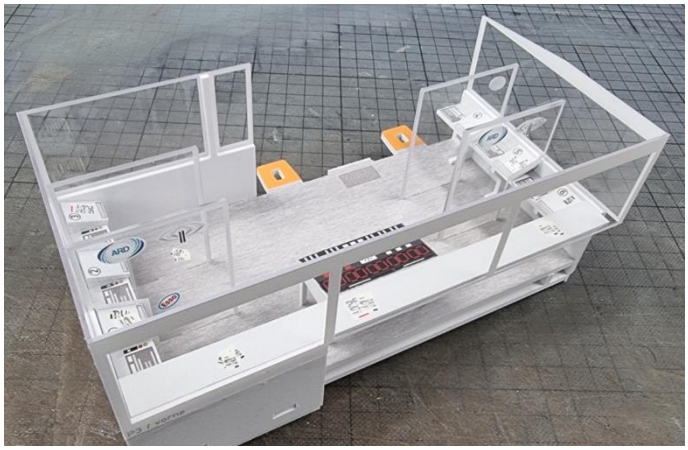


The control panel is glued in place. The position is determined by the lugs on the desk and the grooves in the work surface.



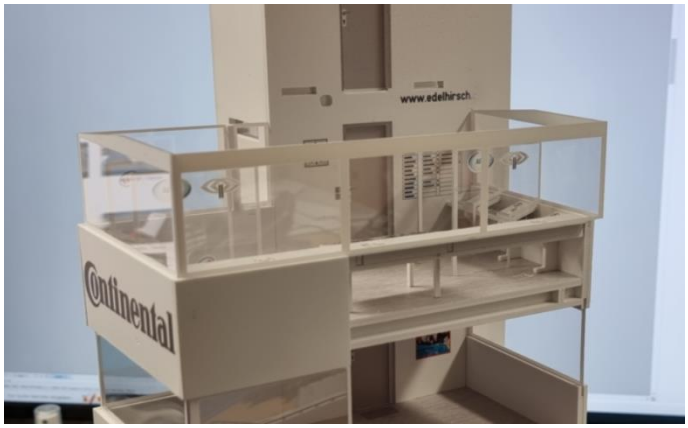
The cutting discs of the workstations can be used.

The discs usually hold without glue.



Where you glue which pane is up to you.

I put them in so that you can see the logos from the front.

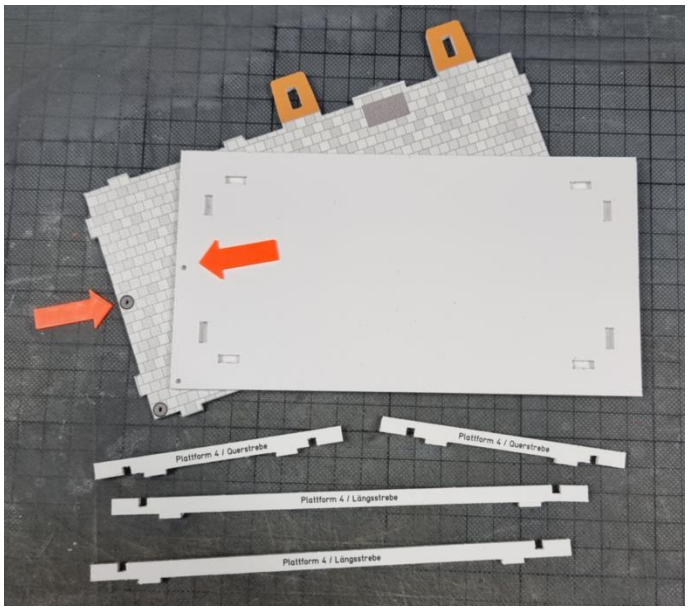


The platform is reinserted into the tower.

Again a little patience is needed ☺

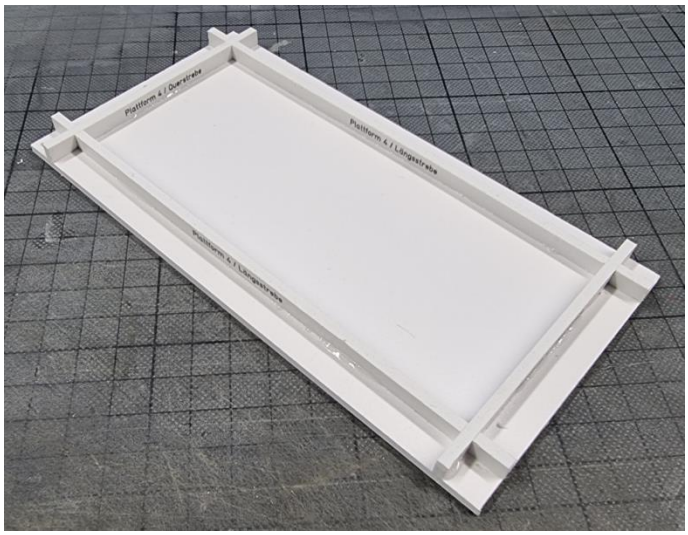
If the orange tabs sit too tightly in the recesses, please bevel the tabs again slightly.

Plattform 4

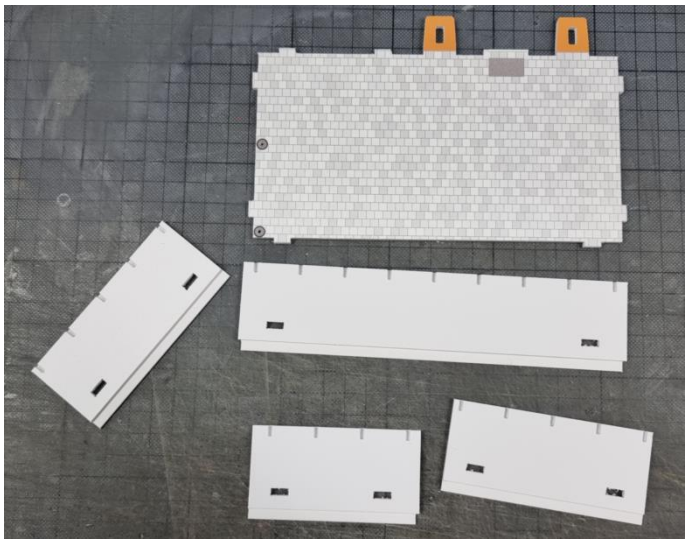


The parts for the 4th platform.

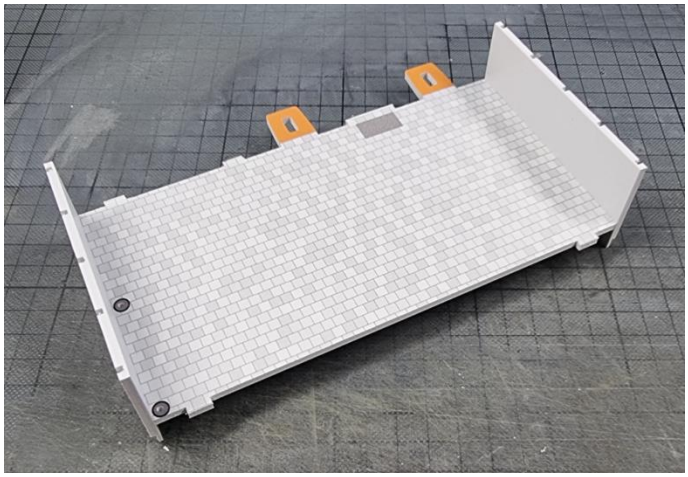
Here there are 2 holes for the flagpoles in the floor.



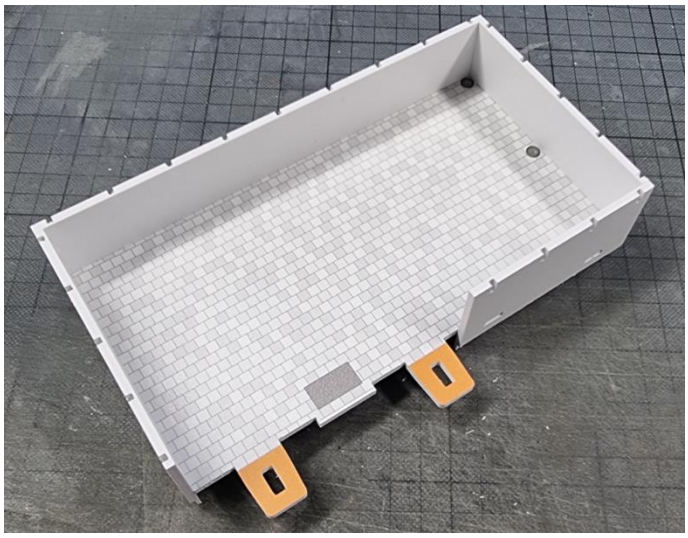
As usual.



Also ☺

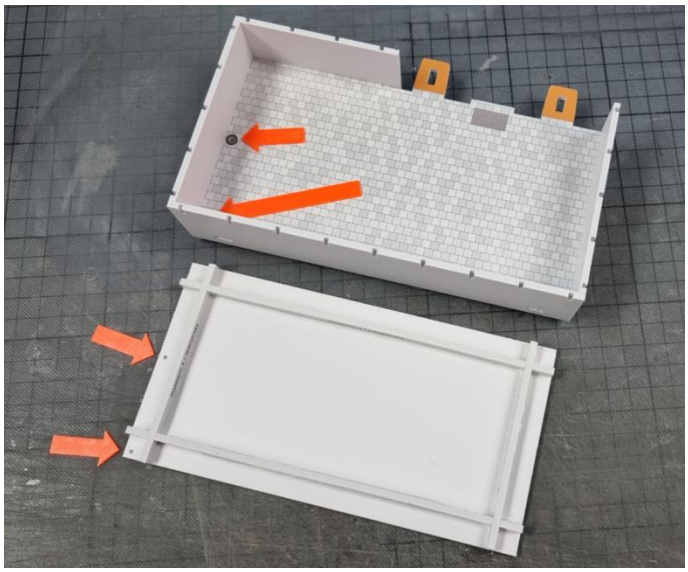


Also ☺



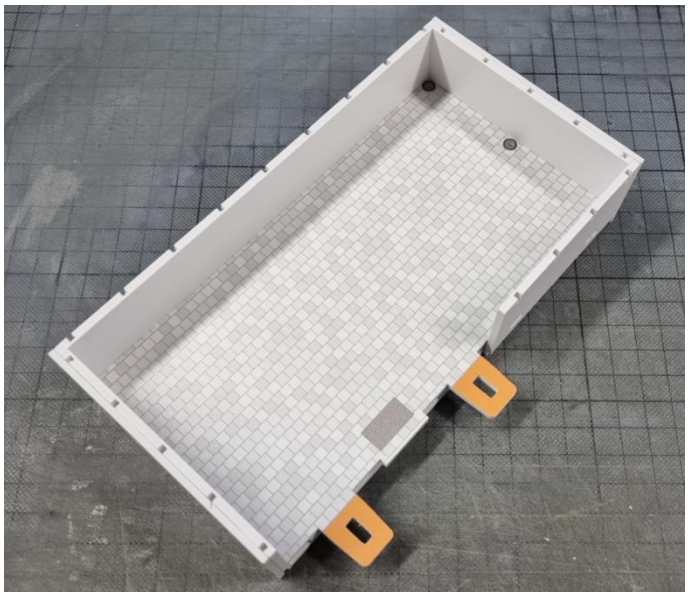
Also ☺

It is important that the grooves for the railing point outwards.



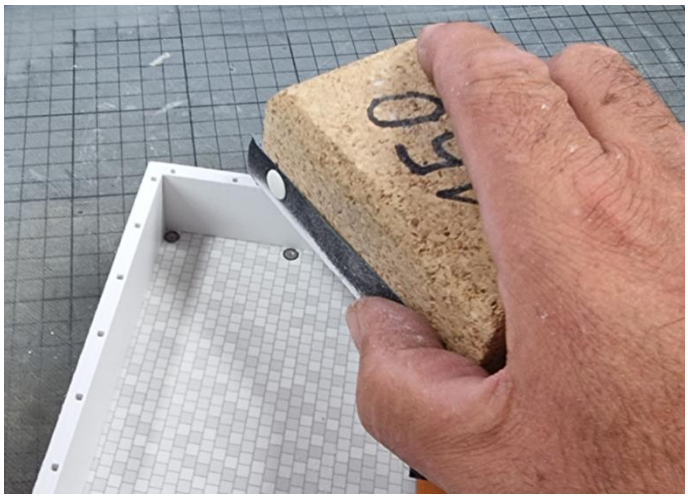
On the left in the corner are the holes for the flagpoles.

The 4th platform with the outer panels.

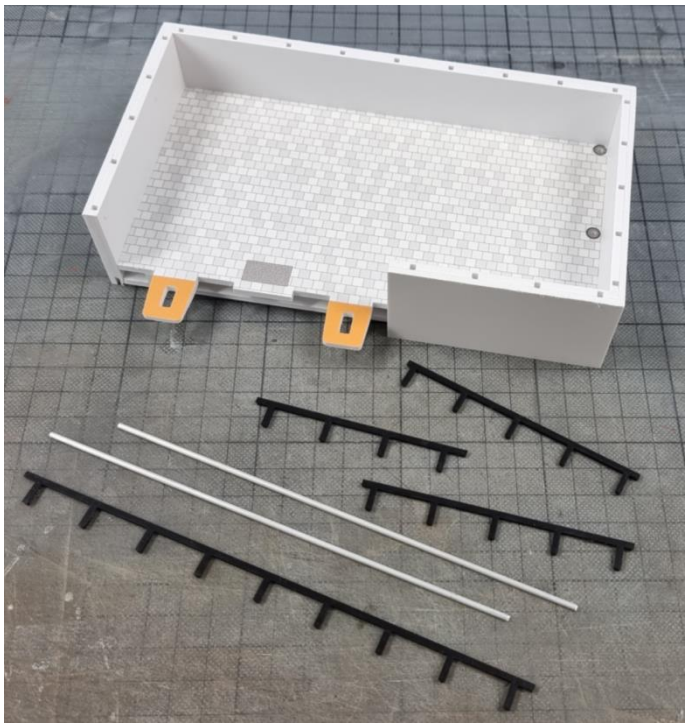


Left and right outer panelling are glued together.

After sanding, glue on and sand the front and rear fairings.



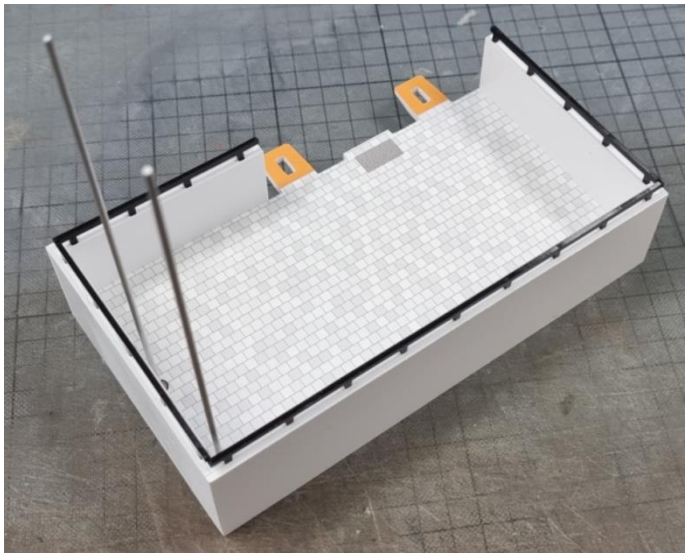
The upper side of the parapet can also be sanded down.



These parts are still needed for the viewing platform.

The two "medium-length" railings differ slightly.

The railing with the shorter "end piece" (orange arrow) goes on the right parapet (seen from the front).

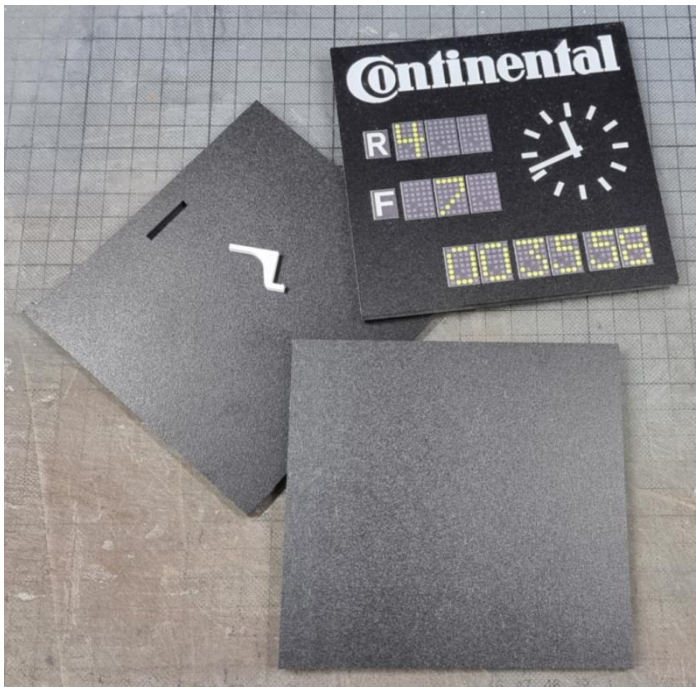


The railings do not need any glue, they sit snugly in the holes on the balustrade.

The platform is also inserted into the tower.

Scoreboard

The last construction step!

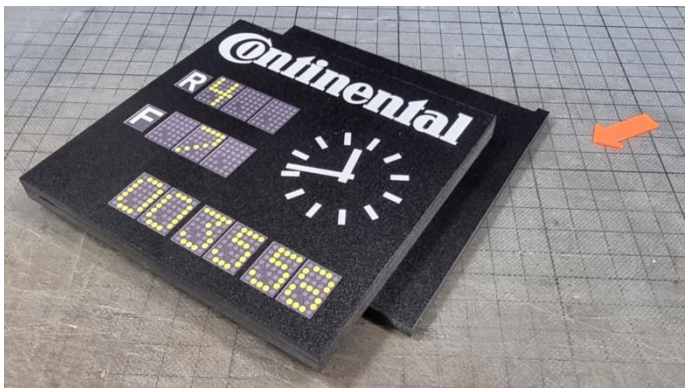


These parts are needed:

The printed scoreboard.

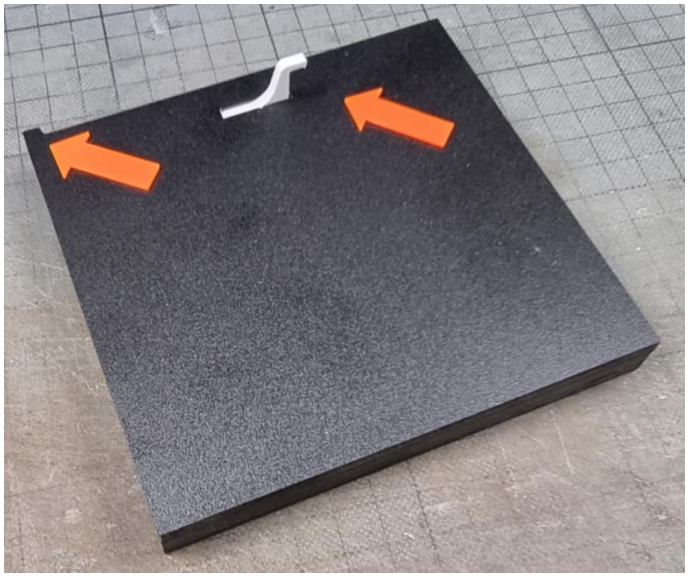
A non-printed plate of the same size.

A plate with a recess and a small white hoe.



First glue the printed and the non-printed panel together.

This package is then glued onto the plate with the recess. Make sure that the nap is at the top right. The recess is automatically on the back.



The hook is glued into the recess on the back as shown here.

Now you can slide the scoreboard into the tower.

Place the board approx. 1 cm to the right in the opening and then move it to the left.

The hook "gets caught" in the table leg of the control for the scoreboard.

DONE !!!

Congratulations, you have ploughed your way through the instructions and hopefully you now have your Conti Tower built correctly in front of you.

Please let me know if you have found any errors in the instructions or the kit. Also let me know about improvements, I always want to stay on the ball and can incorporate changes.

If you are satisfied, don't be afraid to let it be known ☺

In the following you will find pictures that may help you with the assembly.

Wolfram Schidlo
Hausheimer Str. 13
D 92348 Berg bei Neumarkt i. d. OPf.

Model pictures

Own pictures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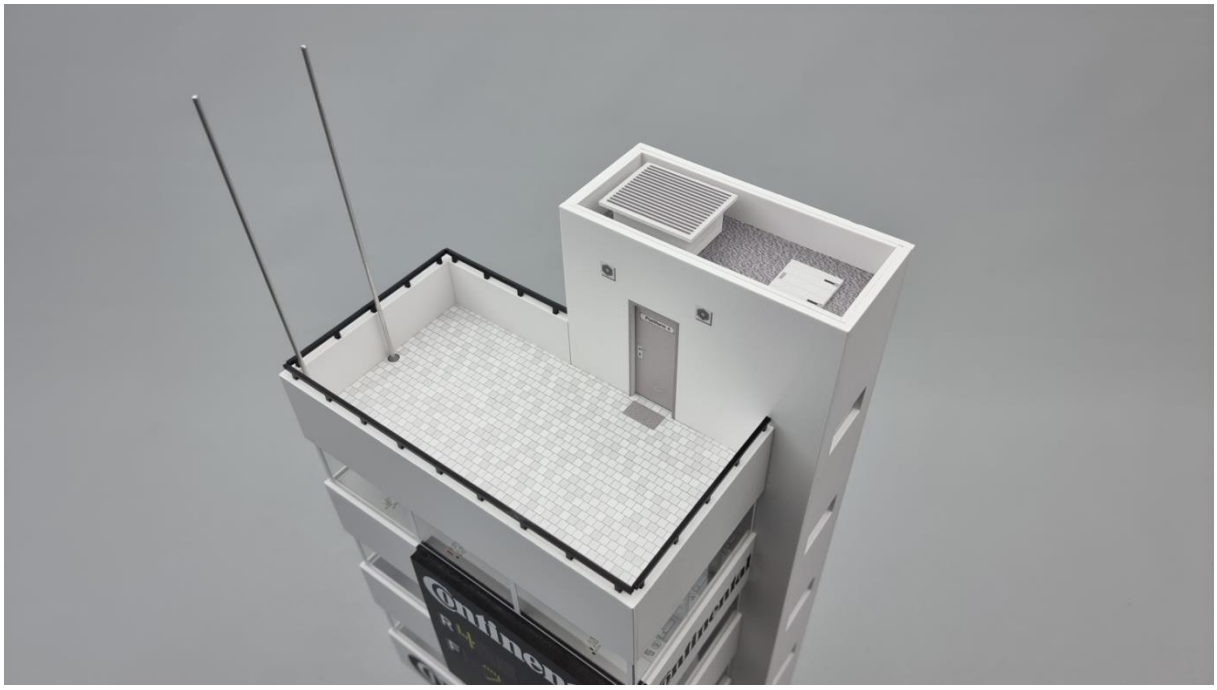


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Customer pictures

This area is under construction.

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