Bf Niederstetten

Niederstetten Station

Assembly Instructions

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1 Introduction

1.1 About the building

Niederstetten is a small rural town in the countryside of Baden-Württemberg in south Germany. It is located on the so-called Tauberbahn, a rural branch lline which was opened in 1870 and is still in operation with hourly local trains. The station building was constructed when the line went into operation, it is over 150 years old. As far as I can gather the station building is no longer owned by the railways but has been sold to private interests. It is a massive stone building, quite large for such a small station on a branch line, and has a fairly unique and representative look, with stone columns on the frontside. The style is also quite unusual for a German building, at first look it resembles stone buildings from Scotland or the Bretagne.

I have modeled the building according to the original construction plans which are available online in the Baden-Württemberg state archive. It has been remodeled only slightly over time, the gables on the left and right side sheds and over the octagonal tower have been razed, but others than that the building has still pretty much the same appearance as when it was built 150 years ago.

The stones make for an interesting choice of filament colors. I think it is sandstone or limestone, some images taken after a recent renovation and cleansing show a brown honey-like color, on other images the building looks dark gray, as weathered sandstone will look after a few decades.

The model will be a good fit for model railways with a rural branch line theme, but will be equally at home as a mainline station for a small town.

1.2 Preparations for assembly

Tools you will need: a cutter and maybe a small file for cutting and finishing the parts that come off the printer. Make sure that you remove all access plastic, adhesion brims and other unwanted residues from the printing process. Tweezers may be helpful for installing some small part. You may also have to rework pins/holes for connecting parts due to the small scale. And you will need glue for plastic models.

1.3 About the model

The model is in H0 model railway scale (1:87) and has over 280 parts that need to be assembled. I designed it using Tinkercad and have printed my copies on a Bambu Lab X1C printer using PLA filament. The joints and part fittings are designed with tolerances of 0,2mm, which should give a good fit – not too tight, not too loose. You may have to cut and file some edges after print.

Enjoy.

2 Files and Parts

The model is divided into multiple files that can be printed separately (see below). This gives you a lot of flexibility in your choice of filament color for different parts when printing. Most files should print fine without support or brims.

Filename	Contains	Suggested Color	# Parts
Base Plate			
Bf Niederstetten Base Plate.stl	Base plate part 1	Gray	1
Bf Niederstetten Base Plate (1).stl	Base plate part 2	Gray	1
Bf Niederstetten Base Plate (2).stl	Base plate part 3	Gray	1
Bf Niederstetten Base Plate (3).stl	Base plate part 4	Gray	1
Bf Niederstetten Base Plate (4).stl	Platform and stairs	Gray	2
Bf Niederstetten Base Plate (5).stl	Platform ramps	Gray	2
Walls			
Bf Niederstetten Walls.stl	Main building walls left and right	Sandstone	2
Bf Niederstetten Walls (1).stl	Main building frontside wall	Sandstone	1
Bf Niederstetten Walls (5).stl	Main building trackside wall	Sandstone	1
Bf Niederstetten Walls (8).stl	Gables, octagonal tower, columns, porch walls	Sandstone	20
Bf Niederstetten Walls (10).stl	Right shed walls	Sandstone	6
Bf Niederstetten Walls (11).stl	Left shed walls	Sandstone	6
Bf Niederstetten Walls (12).stl	Porch ceiling	Sandstone	1
Bf Niederstetten Socket Walls.stl	Wall sockets for sheds	Brown	4
Roof			
Bf Niederstetten Roof Tile (1).stl	Main building frontside roof	Red/Brown	1
Bf Niederstetten Roof Tile (2).stl	Main building trackside roof	Red/Brown	1
Bf Niederstetten Roof 2.stl	Main building top tile row	Red/Brown	1
Bf Niederstetten Roof 2 (1).stl	Tile roof left shed	Red/Brown	1
Bf Niederstetten Roof 2 (2).stl	Tile roof center gable	Red/Brown	1
Bf Niederstetten Roof 2 (3).stl	Tile roof right shed	Red/Brown	1
Bf Niederstetten Roof Sheat.stl	Sheated roof part 1	Silver/Gray	7
Bf Niederstetten Roof Sheat (1).stl	Sheated roof part 2	Silver/Gray	6
Bf Niederstetten Corrugated.stl	Platform roof	Silver/Gray	1
MIscellaneous			
Bf Niederstetten Black.stl	Lamps and platform roof cantilevers	Black	9
Bf Niederstetten Brick.stl	Brick arcs and chimneys	Red/Brown	45
Bf Niederstetten Copper (3).stl	Rainpipes	Copper	23
Bf Niederstetten Copper.stl	Porch railings	Copper	4
Bf Niederstetten Dark Brown.stl	Wooden beams / roof support	Dark Brown	15
Bf Niederstetten Signs.stl	Station sign	Multi	2
Bf Niederstetten Signs (1).stl	Württemberg coat-of-arms	Multi	2
Bf Niederstetten Translucent.stl	Window panes	Translucent	41
Bf Niederstetten White.stl	Inner (white) window frames	White	41
Bf Niederstetten Window Frame (1).stl	Outer window frames	Sandstone	33
Other files			
Bf Niederstetten.3mf	All files and colors in a project for Bambulab printers		

I have included window pane parts which can be printed with translucent filament for slightly milky windows. If you prefer fully transparent windows I suggest to cut them from transparent slides. You can use the translucent parts as a stencil for cutting.

The building is constructed from sandstone (may limestone) blocks. The color of sandstone changes over time, new sandstone buildings will have a honey-like brown-yellow color but will turn to a weathered gray over time. If you prefer a brand new look use a yellow/brown filament for the wall parts, otherwise you may go as well with gray filament to get the more weathered look.

When I printed my copies and created these instructions I decided to select a brown color for the outer (stone) window frames as well as the sockets on the shed. I think this makes for a more interesting look. On the original building there is no such color difference between the walls and the window frames / wall sockets. If you prefer the original look then use the same filament for these parts as for the walls.

3 Base plate assembly

The base plate is divided into four parts which will fit on most 3D printer beds. The parts and the orientation are shown in Figure 1. Glue the four parts together, the result is shown in Figure 2.

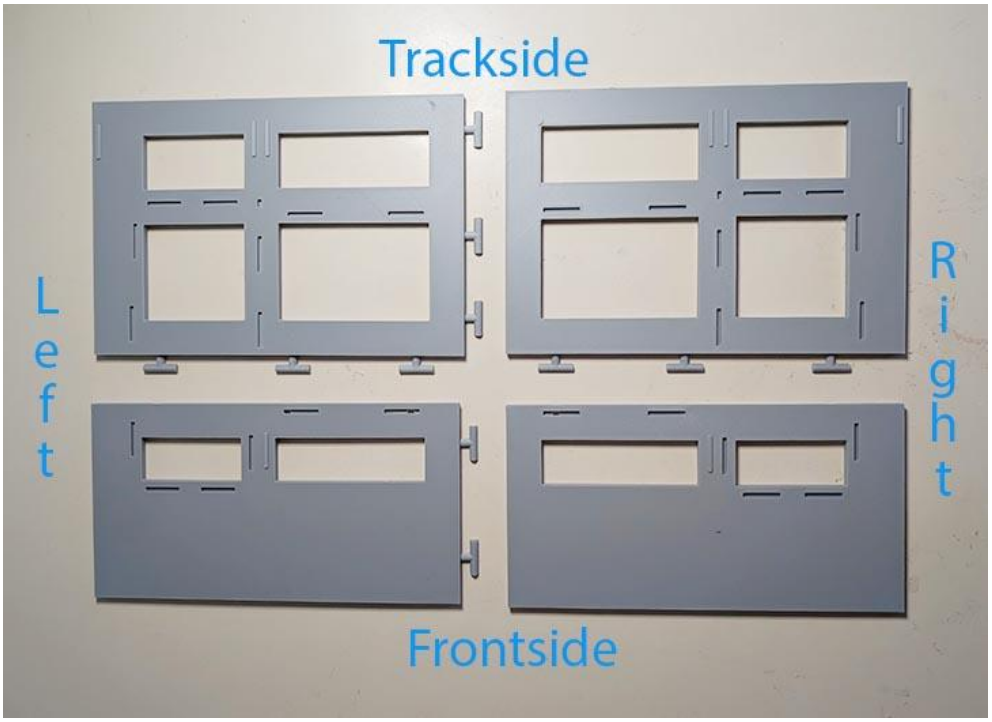

Figure 1 Base plate parts with directions

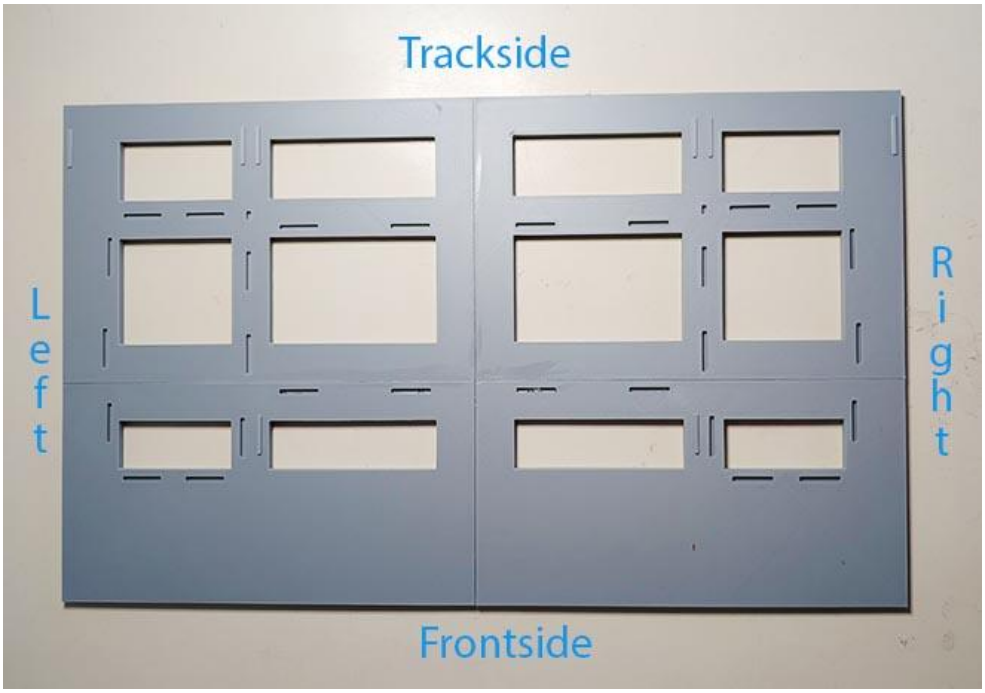

Figure 2 Base plate assembled with directions

The four directions (Frontside, Trackside, Left and Right) will be used for orientation throughout this document.

4 Walls preassembly

4.1 Main building walls preassembly

The parts for the main building trackside wall are shown in Figure 3. Preassemble as follows:

1. Glue the thin translucent window panes onto the back of the white window frames (4 panes for the lower and upper floor each)
2. Glue the brown window frames into the corresponding holes in the wall from the rear side.
3. Glue the white window frames with panes into the corresponding brown window frames from the rear side.
4. Glue the brick arcs into the corresponding holes over the windows from the forward side.
5. Glue the five black cantilevers for the trackside roof into the slots on the forward side.

The result will look as shown in Figure 4.

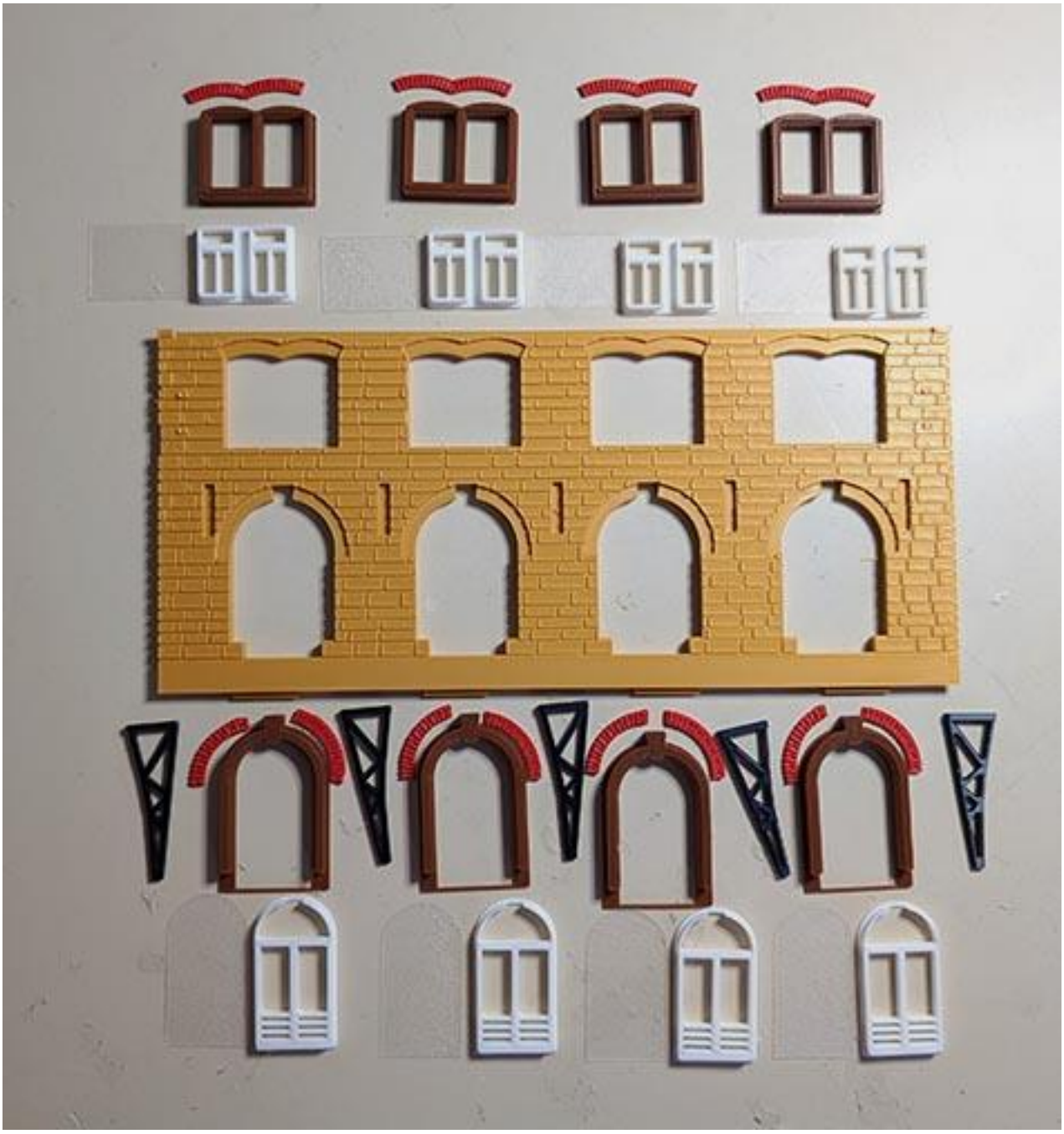

Figure 3 Trackside wall parts of the main building ready for preassembly



Figure 4 Trackside wall of the main building after preassembly

The parts for the main building frontside wall are shown in Figure 5. Preassemble as follows:

1. Glue the thin translucent window panes onto the back of the white window frames (4 panes for the lower and upper floor each, one pane for the gable window)
2. Glue the brown window frames of the lower and upper floor into the corresponding holes in the wall from the rear side.
3. Glue the white window frames with panes into the corresponding brown window frames from the rear side.
4. Glue the brick arcs of the upper floor and the gable into the corresponding holes over the windows from the forward side.
5. Glue the gable onto the building wall, then install the brown window frame plus the white window frame from the rear side.

The result will look as shown in Figure 6.

Preassemble the octagonal tower on the frontside as shown in Figure 7:

1. Glue the thin translucent window panes onto the back of the white window frames (3 panes for the lower and upper floor each)
2. Glue the white window frames into the corresponding holes in the walls from the rear side.



Figure 5 Parts for the frontside wall of the main building ready for preassembly



Figure 6 Frontside wall of the main building after preassembly



Figure 7 Octagonal tower on the frontside ready for preassembly (left) and after preassembly (right)

The parts for the left and right side walls of the main building are shown in Figure 8. The two walls are symmetrical. Preassemble as follows:

1. Glue the thin translucent window panes onto the back of the white window frames.
2. Glue the gable on top of the main wall section.
3. Glue the brown window frames into the corresponding holes in the wall from the rear side.
4. Glue the white window frames with panes into the corresponding brown window frames from the rear side.
5. Glue the brick arcs into the corresponding holes over the windows from the forward side.

The result is shown in Figure 9.



Figure 8 Parts for the left and right wall of the main building ready for preassembly



Figure 9 Left and right wall of the main building after preassembly

4.2 Shed walls preassembly

There are two single floor sheds left and right of the main building, the sheds are symmetrical. Each shed has six wall elements, the parts for the right shed are shown in Figure 10. Preassemble as follows:

1. Glue the thin translucent window panes onto the back of the white window frames.
2. Glue the brown window frames of the lower and upper floor into the corresponding holes in the walls from the rear side.
3. Glue the white window frames with panes into the corresponding brown window frames from the rear side.
4. Glue the brick arcs into the corresponding holes over the windows from the forward side.
5. Glue the two black iron lamps into the corresponding groves on the side wall, left and right end.
6. Glue the four comb-shaped wooden support beams into the groves at the top of the wall – the beams will later support the roof.
7. Glue the gable onto the center wall element.
8. Glue the station sign and the Württemberg coat-of-arms into the corresponding holes of the center wall element.

The result will look as shown in Figure 11. Repeat the procedure for the right shed.



Figure 10 Parts of the left shed ready for preassembly



Figure 11 Wall elements for left shed after preassembly

5 Building assembly

5.1 Main building assembly

The wall elements for the main building are shown in Figure 12. Assemble as follows:

1. Glue the four wall elementss (frontside, trackside, left and right) into the corresponding slots on the base plate and glue the wall elements together at the edges.

The result will look as shown in Figure 13. Note: do not install the octagonal tower yet.



Figure 12 Wall elements of main building ready for asssembly

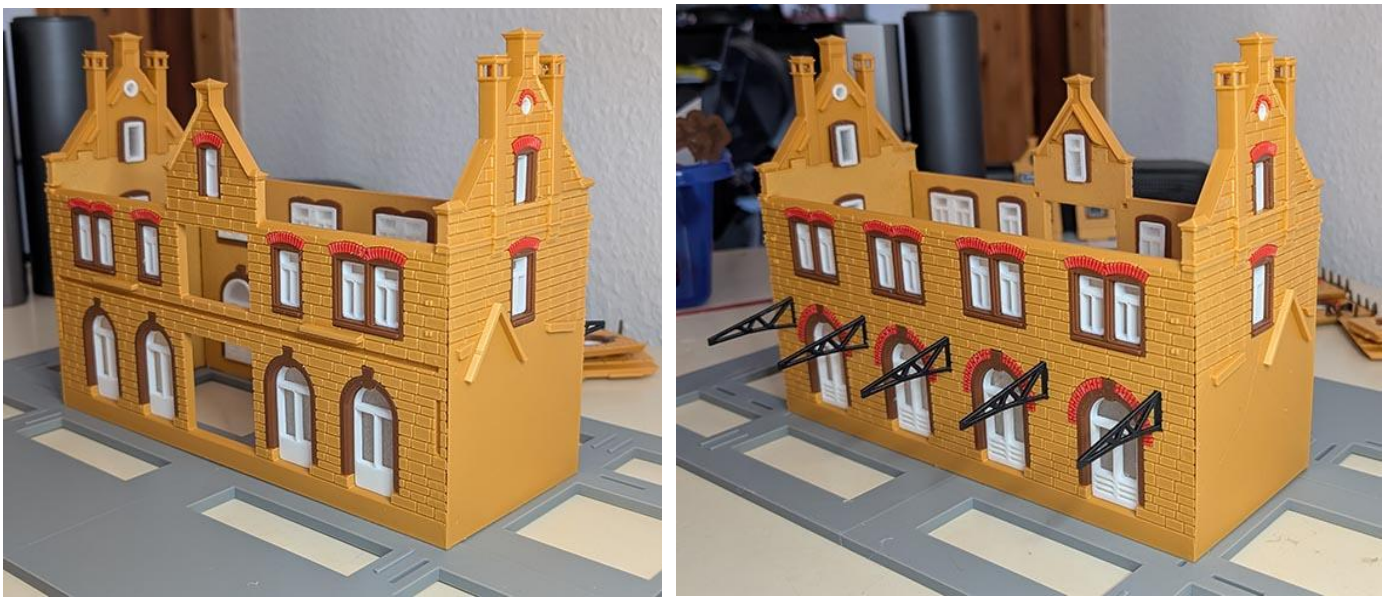

Figure 13 Main building after assembly, view from frontside / right (left) and trackside / left (right)

5.2 Sheds assembly

The two sheds left and right of the main building are symmetrical. The wall elements for the right shed are shown in Figure 14. Assemble as follows:

1. Glue the six wall elements into the corresponding slots on the base plate, one by one. Work your way around the shed.
2. Glue the bottom stone layers onto the right and frontside wall.

Note the following for selecting the fitting wall elements left and right:

- The slot for the center wall element with the gable is slightly off center, so check that you pick the correct center element for the left and right shed.
- The small brackets for the rain gutters should be facing towards the main building, see Figure 15 and Figure 17.

The result will look as shown in Figure 15 to Figure 17. Repeat these steps for the left shed. The result is shown in Figure 18 and Figure 19.



Figure 14 Wall elements for right shed ready for assembly



Figure 15 Right shed installed, view from frontside



Figure 16 Right side of the building with right shed installed



Figure 17 Platform side of right shed after installation



Figure 18 Sheds left and right installed, frontside view / right



Figure 19 Left and right shed assembled, view from platform side / left

5.3 Platforms and stairs assembly

The parts for the trackside platform and the frontside stairs are shown in Figure 20. Assemble as follows:

1. Glue the three platform elements onto the base plate. The platform elements will align with the trackside building walls.
2. Glue the gray stairs onto the base plate, aligned with the frontside main building.
3. Glue the octagonal tower into the gap and on to the frontside building wall.
4. Glue the angled stone walls onto the gray stairs plate left and right of the stairs. The slot for the railing must face upwards.

The result will look as shown in Figure 21 and Figure 22.

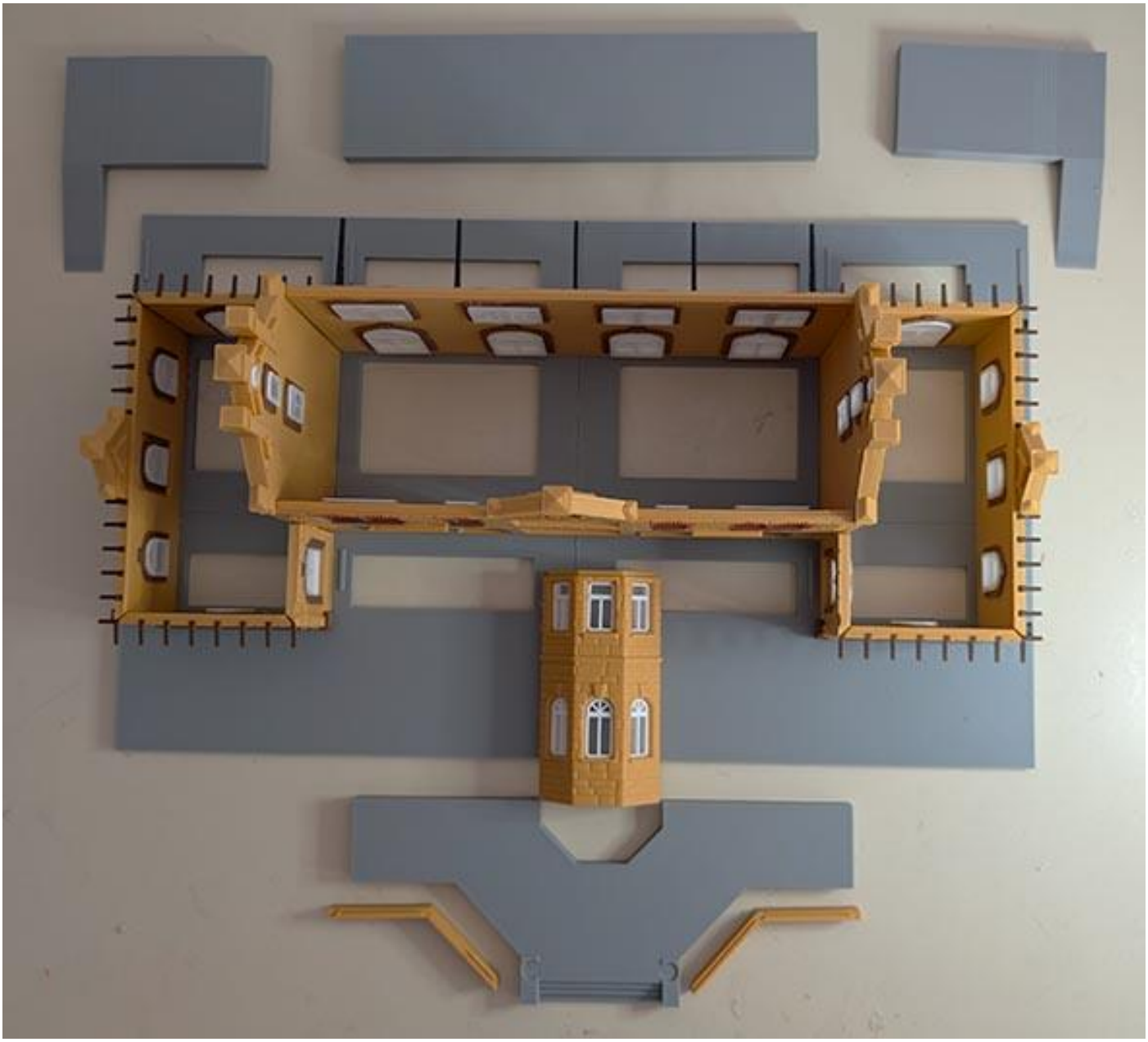

Figure 20 Parts for platform and frontside stairs ready for assembly



Figure 21 Platform installed



Figure 22 Frontside stairs installed

5.4 Frontside porch assembly

The parts for the frontside porch and the tiled roof section for the shed are shown in Figure 23. Assemble as follows:

1. Assemble the six columns: glue the wooden cross-shaped part (arms facing upwards) into the slots of the long column part, then glue the short column part on top of the cross-shaped part.
2. Install the columns onto the gray stairs plate into the corresponding spaces. The two columns with two wooden arms only are positioned onto the shed walls.
3. Glue the four railings into the slots of the staircase, between the columns.
4. Glue the long wooden beam onto the columns, the cross-shaped beams have to positioned over the columns. Check the correct position of the columns and adjust when necessary. The result should look as shown in Figure 24.
5. Glue the ceiling over the staircase into the slot of the main building, onto the shed walls left and right and onto the wooden beam. The result will look as in Figure 25.
6. Install the tiled roof sections on the shed left and right. Glue the roof part onto the supports on the walls. Note that there is a small notch on one side of the roof, this notch fits the protruding window frame of the main building. Select and position the roof parts so that the notch fits to the window frame. The result will look as in Figure 26.

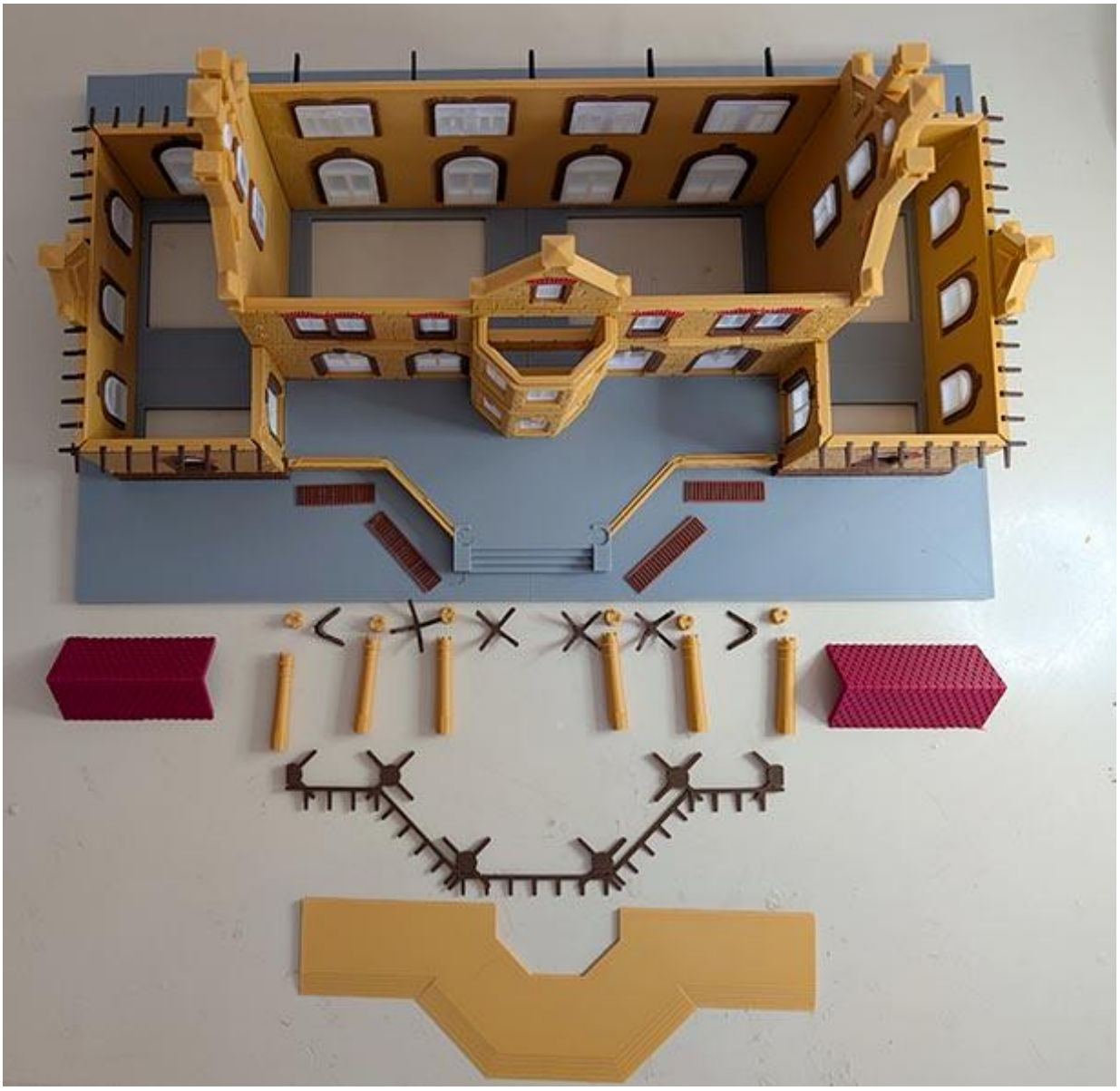

Figure 23 Parts for frontside porch and center shed roof ready for installation



Figure 24 Columns, railings and wooden beam for frontside porch installed



Figure 25 Frontside porch installed



Figure 26 Center shed roof installed (right shed)

5.5 Assembly of the shed roof, platform roof and frontside porch roof

The parts of the shed roof, frontside porch roof and the platform roof are shown in Figure 27. Assemble as follows:

1. Glue the frontside and trackside shed roof parts onto the supports of the main building and onto the protruding wooden beams frontside and trackside.
2. Glue the triangular shed roof parts left and right, frontside and trackside onto the protruding wooden beams left and right. Make sure they align with the roof parts already installed.
3. Glue the center section of the frontside porch roof onto the wooden beam and onto the center supports on the octagonal tower. Then add the roof parts left and right, first the larger part and finally the slim triangular part. This part should align with the roof parts already aligned. Adjust the position of the roof parts if necessary.
4. Install the roof of the octagonal frontside tower. First glue the wooden beams onto the tower, then the roof part on top of it.
5. Glue the corrugated platform roof onto the trackside cantilevers.

The result will look as shown in Figure 28 to Figure 30.

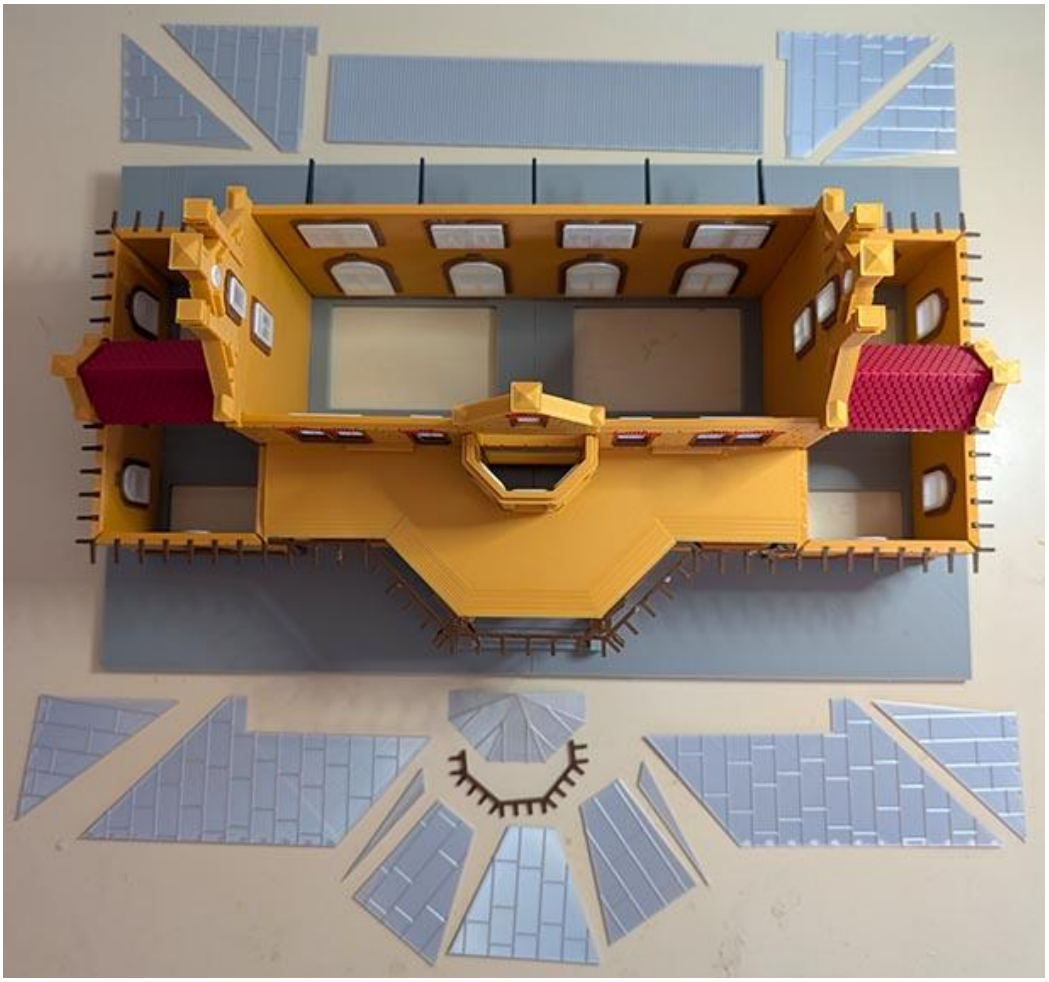

Figure 27 Shed roof and platform roof parts ready for assembly



Figure 28 Shed roof installed, top view



Figure 29 Shed roof and platform roof installed, view from platform side / left



Figure 30 Shed roof installed, view from frontside right

5.6 Main building roof assembly

The parts of the main building roof are shown in Figure 31. Assemble as follows:

1. Glue the large frontside and trackside roof plates onto the supports left and right and onto the angled end of the trackside and frontside walls of the main building. Make sure that the little notches left and right align with the protruding chimneys on the left and right wall.
2. Glue the thin center tile row on top of the frontside and trackside roof plate.
3. Glue the small side wall parts onto the frontside center gable. The pins should fit into the backside holes. For details see Figure 32.
4. Glue the center gable roof triangle onto the backside supports and into the triangular opening of the frontside roof plate.
5. Install the two brick chimneys onto the marks on the frontside roof plate.

The result will look as shown in Figure 33 and Figure 34.

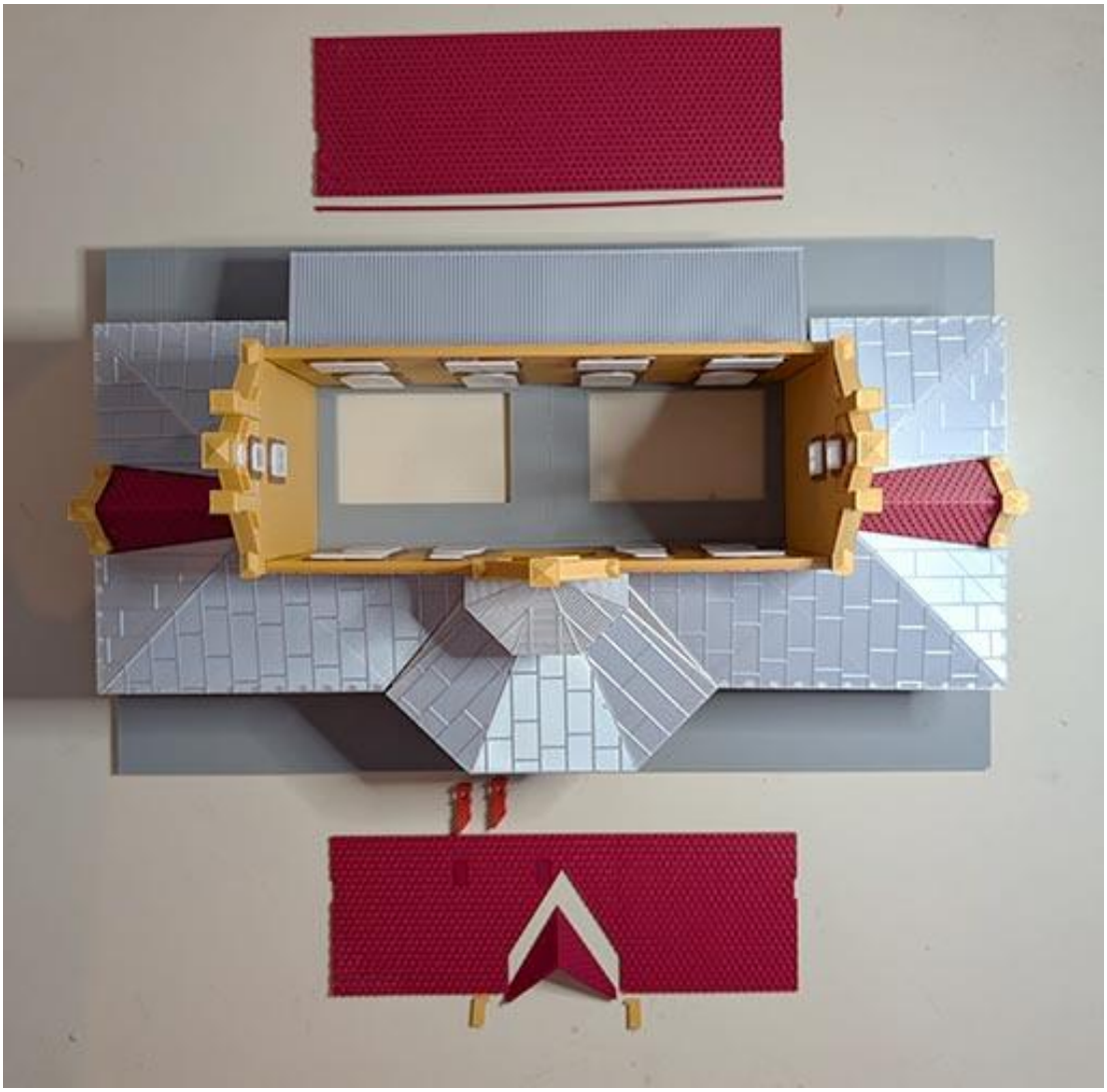

Figure 31 Main building roof parts ready for assembly

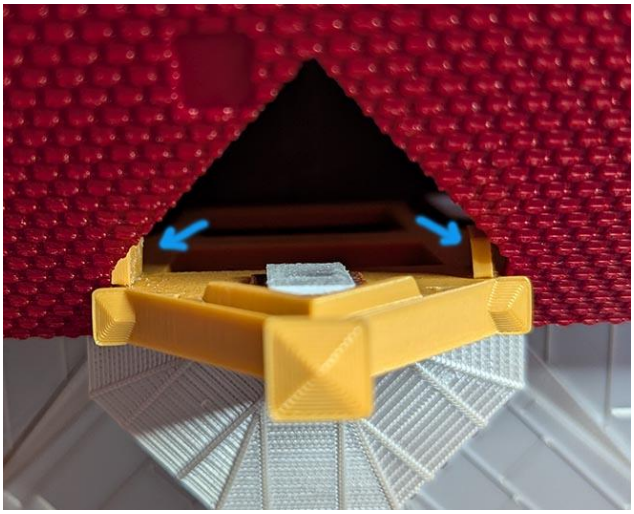

Figure 32 Small wall elements installed on center gable



Figure 33 Main building roof, frontside view



Figure 34 Main building roof, top view

5.7 Installation of rain gutters and drains

The rain gutter parts ready for installation are shown in Figure 35. Assemble as follows:

1. Glue the horizontal rain gutters under the corresponding roof (main building roof, shed and porch roof, octagonal tower roof and platform roof.
2. Glue the vertical rainpipes onto the little clamps on the corresponding walls.

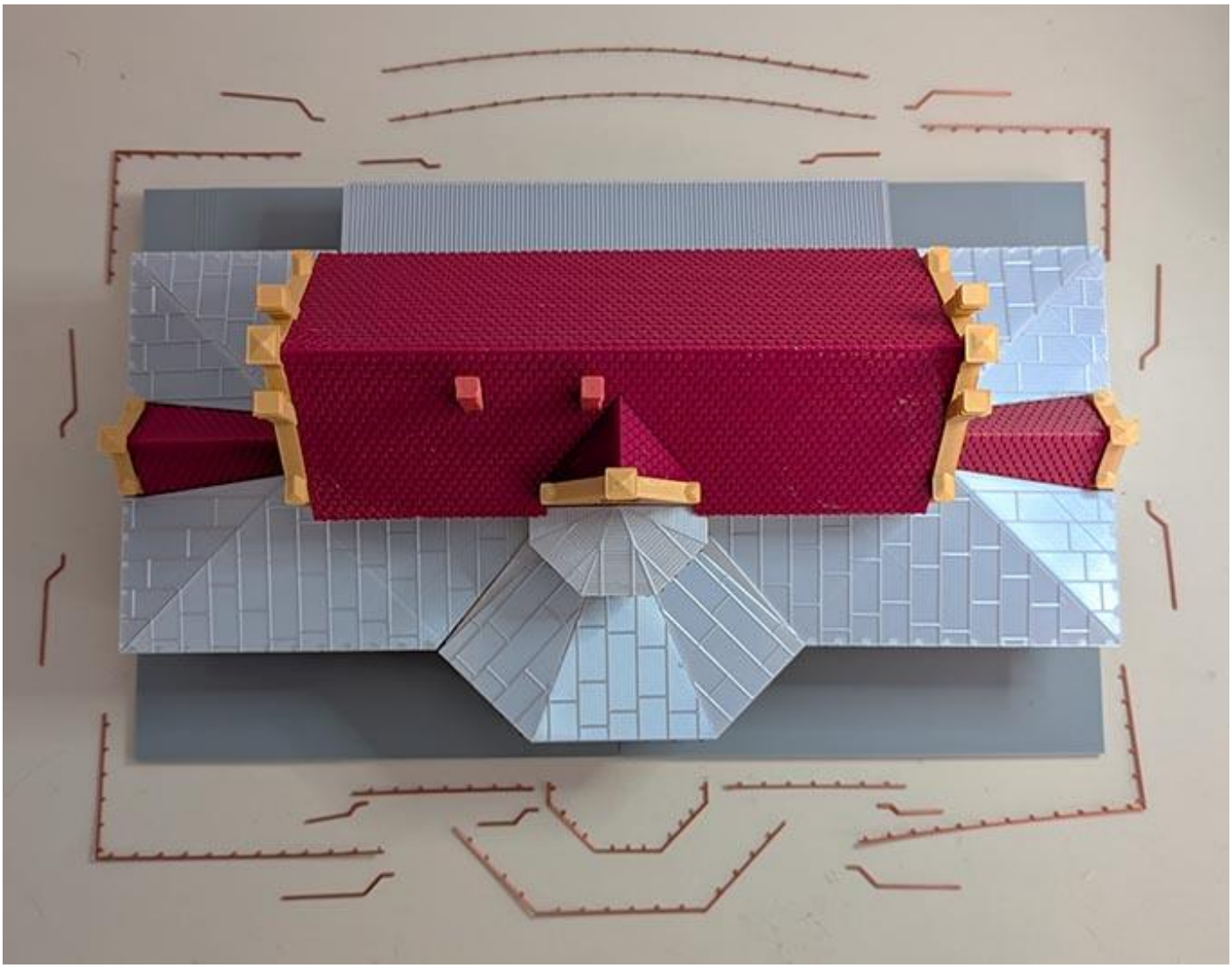

Figure 35 Rain gutters ready for installation

6 Final result

Congratulations. You finished the model assembly. The final result is shown in to .



Figure 36 Niederstetten station fully assembled. View from left and right.



Figure 37 Niederstetten station fully assembled. Trackside view (top) and frontside view (bottom)



Figure 38 Niederstetten station fully assembled, view from frontside left and trackside right



Figure 39 Niederstetten station fully assembled, view from trackside right



Figure 40 Niederstetten station fully assembled, view from trackside left



Figure 41 Niederstetten station fully assembled, view from frontside right