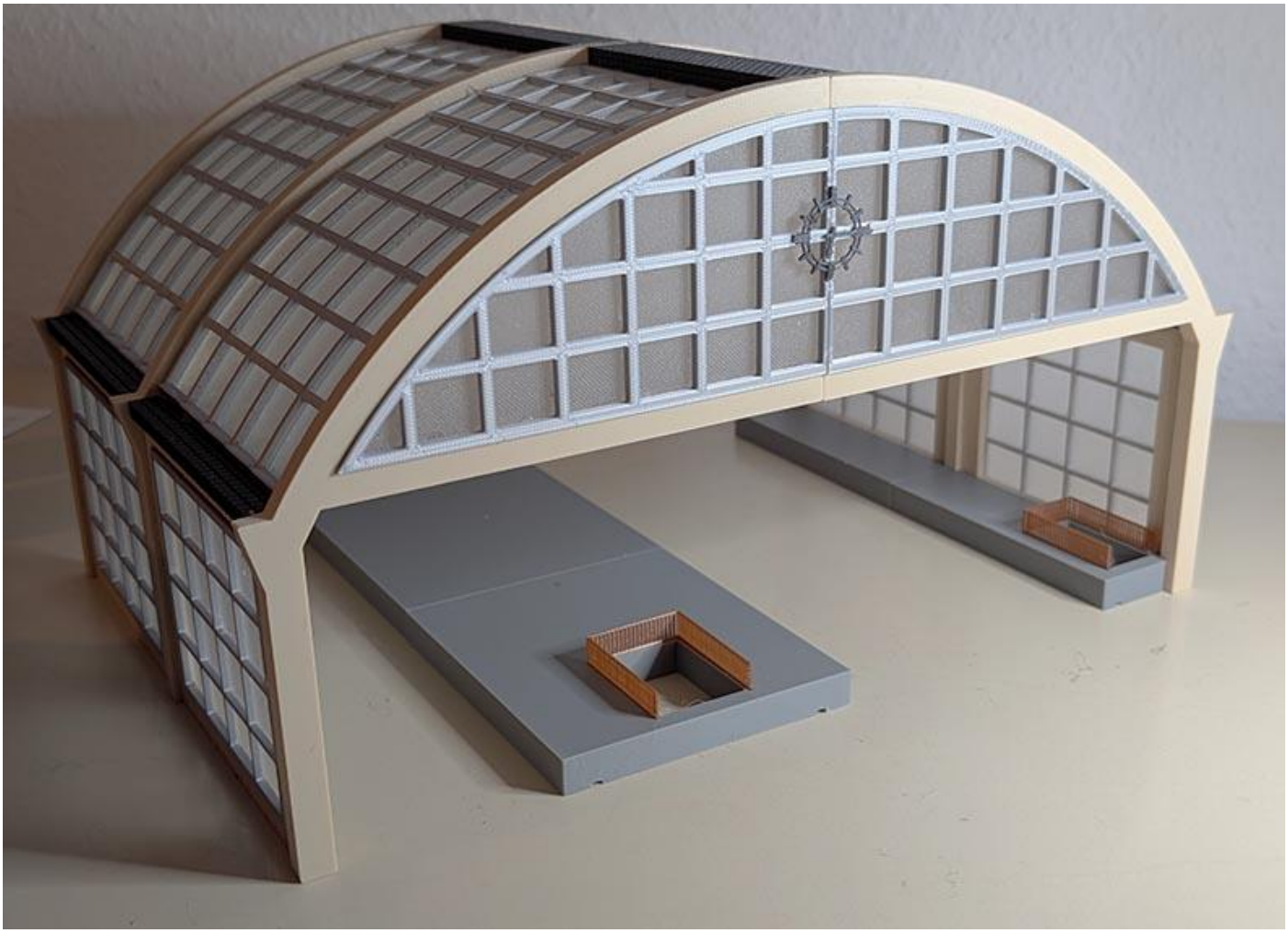
Bahnhofshalle, Modular

Modular station hall

Assembly Instructions

V1.0, May 2026



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1 Introduction

1.1 About the building

This is a modern style concrete station hall for H0 scale, loosely based on a TT scale model produced by the VERO company (no longer in operation) in the 1970s. It has a modular design and can be stretched ad infinitum – simply add additional sections of 115mm length (10m in the real world) until it fits your model railroad station layout.

The arc and crossbeam will cover three Märklin H0 C tracks with 77,5mm and 145,6mm distance between tracks, with room for a 100mm platform between tracks and a smaller platform on one side. Fitting modular platform segments are included. The crossbeam height will accommodate tracks with overhead wire.

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 assembly is simple and straightforward. 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.

The choice of colors shown here will be a nice fit for my Solingen Hbf station model. But if you prefer, with a combination of dark color filaments (black, dark gray, dark brown) you can get a more traditional dark look for a station hall.

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.

If you want to add additional segments you will have to print the files with Modular segment = X once for each segment.

Thin printable translucent window panes are included which will result in milky windows – quite typical for station hall windows. If you want a fully transparent hall replace the printable window panes with transparent slides of the same size.

Filename	Modular segment	Contains	Suggested Color	# Parts
Station hall structural elements				
Bahnhofshalle White (7).stl	X	Side walls	White/beige	2
Bahnhofshalle White (8).stl		Arc/crossbeam front, part 1	White/beige	4
Bahnhofshalle White (9).stl		Arc/crossbeam front, part 2	White/beige	4
Bahnhofshalle White (10).stl	X	Arc/crossbeam middle section	White/beige	6
Bahnhofshalle Dark Gray (1).stl	X	Side and center beams	Dark gray	3
Window segments				
Bahnhofshalle Silber (1).stl		Window frame front arc	Silver/metal	2
Bahnhofshalle Silber (2).stl	X	Window frame side walls	Silver/metal	2
Bahnhofshalle Silber (3).stl	X	Window frame roof	Silver/metal	2
Bahnhofshalle Silber.stl		Window frame roof (2x)	Silver/metal	2
Bahnhofshalle Dark Gray.stl		Clocks for front arcs	Black	2
Bahnhofshalle Translucent (1).stl	X	Windows for side walls	Translucent	2
Bahnhofshalle Translucent (3).stl	X	Windows for roof	Translucent	2
Bahnhofshalle Translucent.stl		Windows for front arc	Translucent	2
Platform segments				
Bahnhofshalle Platform (1).stl	(X)	Platform segments with stairs	Gray	2
Bahnhofshalle Platform (3).stl		Platform stair railing and links	Brown	8
Bahnhofshalle Platform.stl	(X)	Plain platform segments	Gray	2
Other files				
Bahnhofshalle.3mf		All files and matching colors for Bambulab printers		

3 Preassembly

The arc/crossbeams are divided into two parts to fit regular printer beds. They have to be joined together and linked.

The parts for a middle arc/crossbeam are shown in Figure 1. Preassemble as follows:

1. Glue the left and right half together at the crossbeam and the arc
2. Glue a pair of links into the groves of the crossbeam on both sides – they will hold the parts together

The result will look as in Figure 2. Repeat this for as many middle arc/crossbeams as you need.

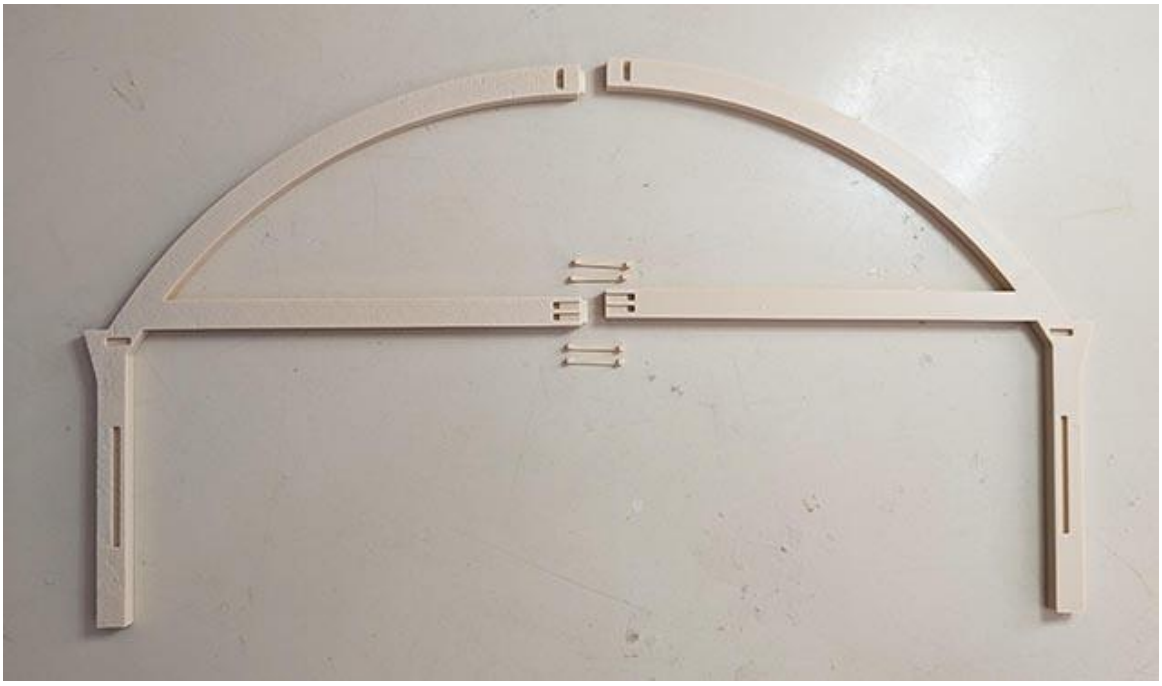


Figure 1 Parts for middle arc/crossbeam ready for assembly



Figure 2 Middle arc/crossbeam after preassembly

The parts for one front arc/crossbeam are shown in Figure 3. Preassemble as follows:

1. Glue the left and right half together
2. Glue a pair of links into the groves of the backside of the crossbeam
3. Glue the translucent windows on the backside of the silver window frame, left and right
4. Glue the window frame/window onto the frontside of the arc/crossbeam
5. Glue the clock dial onto the window frame in the center

The result will look as shown in Figure 4.



Figure 3 Front arc/crossbeam ready for preassembly



Figure 4 Front arc/crossbeam after preassembly

Asssemble the side walls as shown in Figure 5:

1. Glue the window pane on the backside of the window frame
2. Glue the window frame/window into the groves of the side wall

Repeat this for as many side windows you need (two per modular segment)



Figure 5 Side wall ready for preassembly (left) and after preassembly (right)

Glue the roof window panes on the inner side of the curved roof window frame. The window pane is flexible and must be bent into shape. Repeat this for as many roof windows you need (two per modular segment).



Figure 6 Roof window parts

4 Hall assembly

Start assembly of the hall with one front and the first modular segment. The parts are shown in Figure 7. Assemble as follows:

1. Set up the front arc/crossbeam vertically and glue the side walls into the front columns left and right
2. Glue the dark side beams on top of side walls
3. Glue the first middle arc/crossbeam onto the side walls and side beams
4. Glue the dark center beam between the two arcs at the top
5. Glue the curved windows onto the side beams and the center beam.

The result will look as shown in Figure 8 and Figure 9.

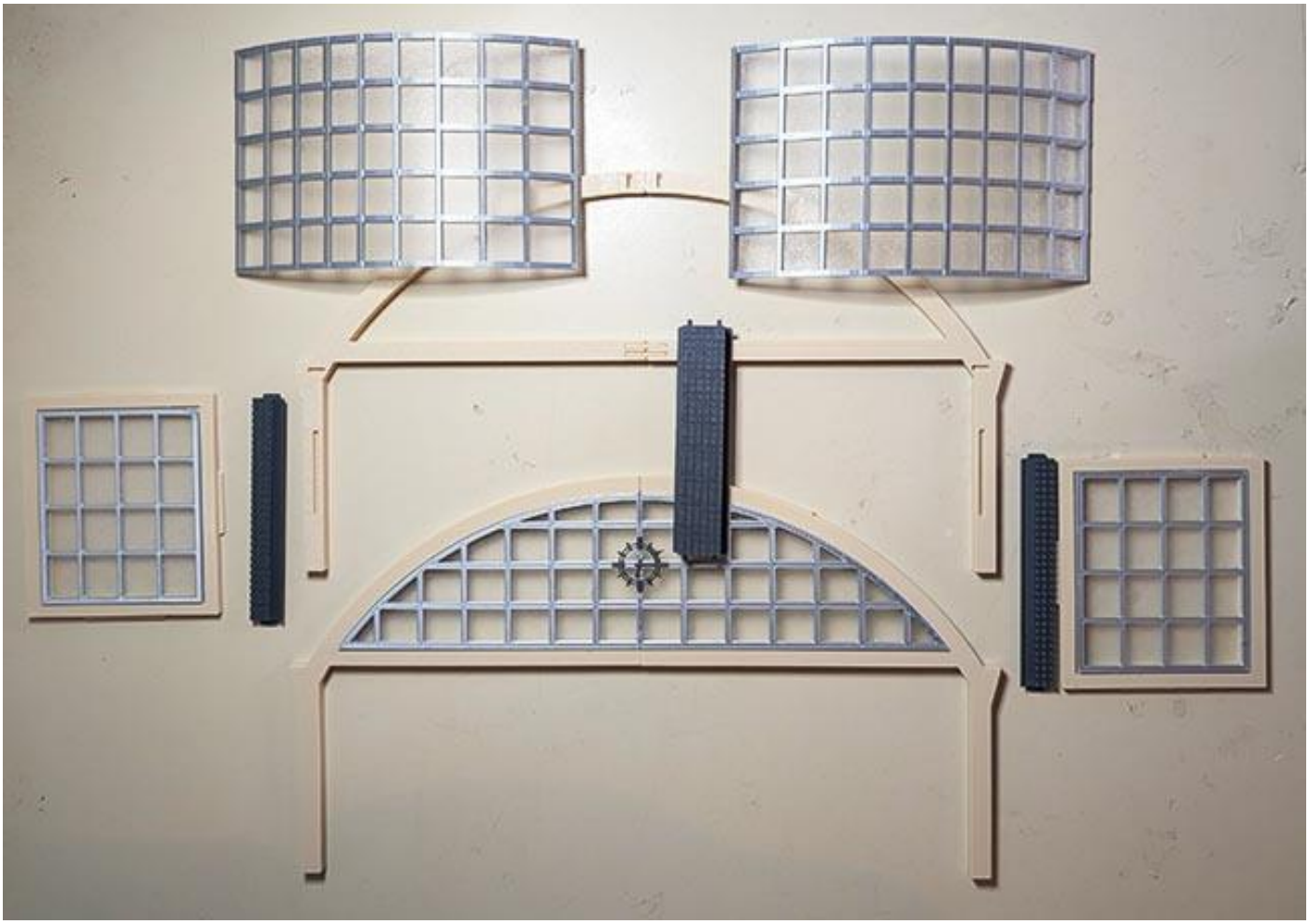


Figure 7 Front arc/crossbeam and first modular segment ready for assembly



Figure 8 Station hall front and first modular segment assembled, view from middle arc/crossbeam



Figure 9 Station hall front and first modular segment assembled, view from front

Repeat this for all modular segments, see Figure 10. Install the second front arc/crossbeam at the other end of the station hall.

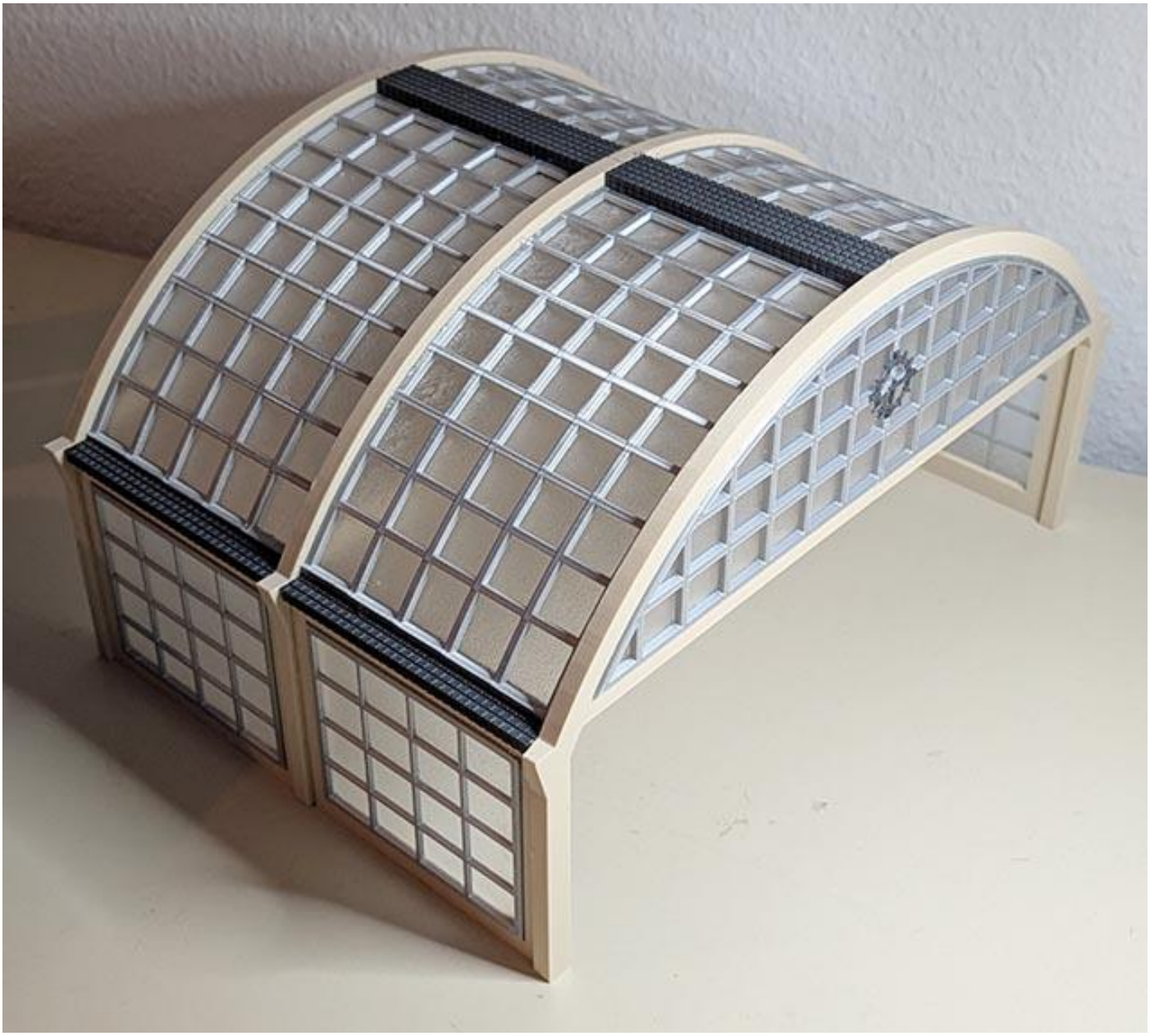


Figure 10 Second modular segment added

5 Platforms

The parts of the modular platforms are shown in Figure 11. There are two types of platform included: a small platform at the side of the station hall and a wide platform between tracks. For each platform type a plain segment and a segment with stairs for an underpass are included. Assemble as follows:

1. Glue as many segments together as you need and link them on the bottom with the small link elements (two links for the wide platform, one link for the small platform), see Figure 12.
2. Install the railings onto the platform with stairs, see Figure 13.

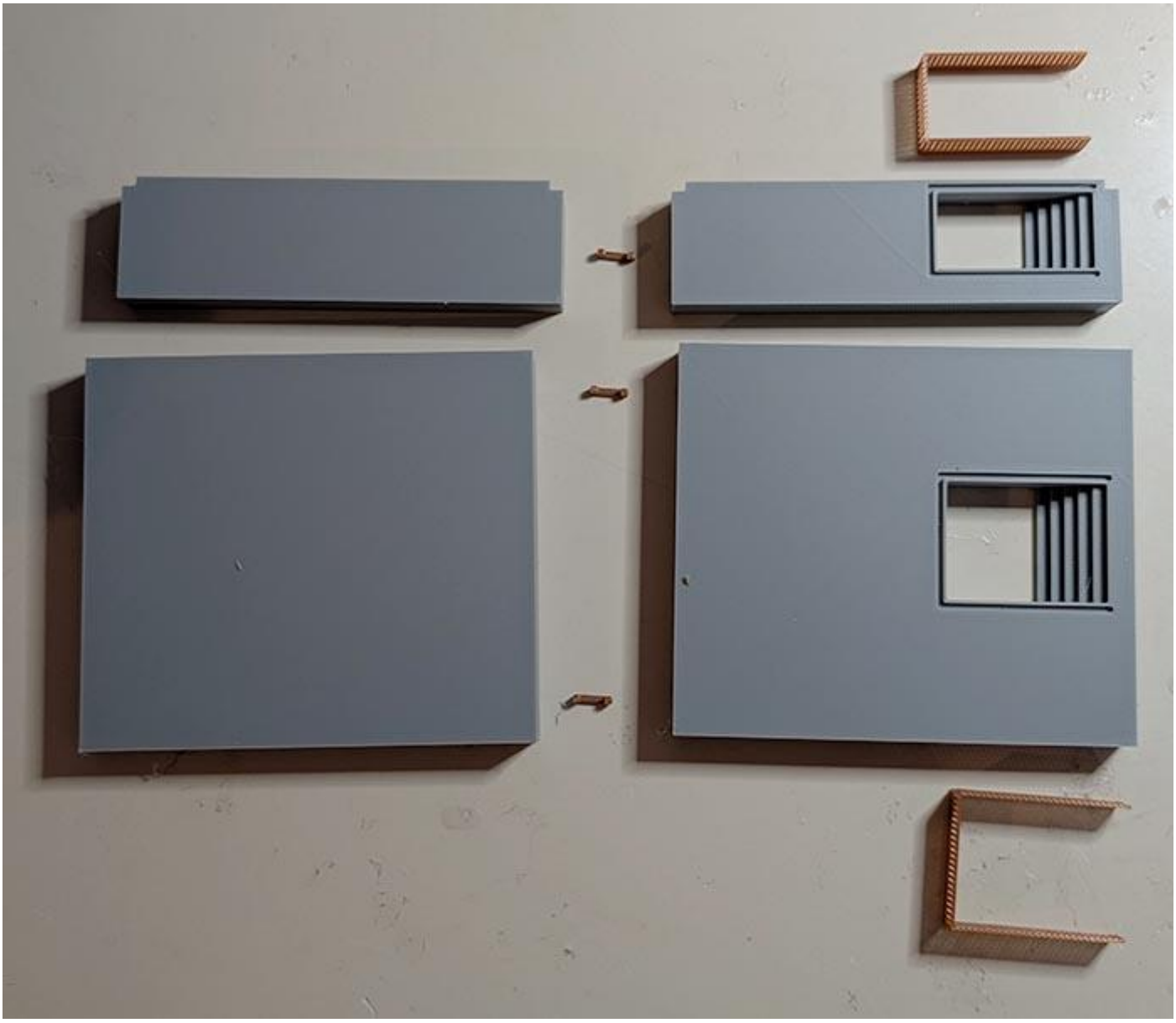


Figure 11 Modular platform segments ready for assembly, plain platform segments left, platform segements with stairs right, wide platform at the bottom, small side platform at the top



Figure 12 Two platform segements each linked the small links. Small platform top, wide platform at the bottom

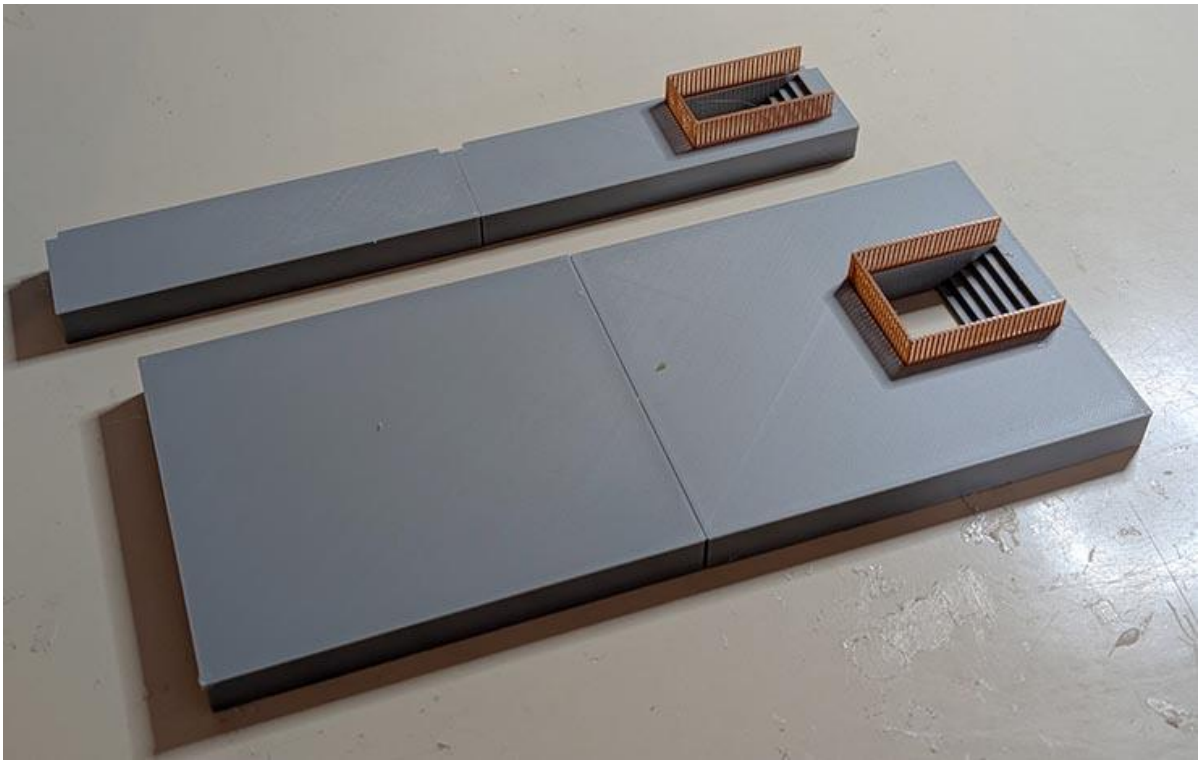


Figure 13 Two platform segements assembled, small platform at the top, wide platform at the bottom

Position the platform on your model railroad under the station hall as needed.

6 Final result

Congratulations. You finished the model assembly. The final result is shown in Figure 14 and Figure 15.

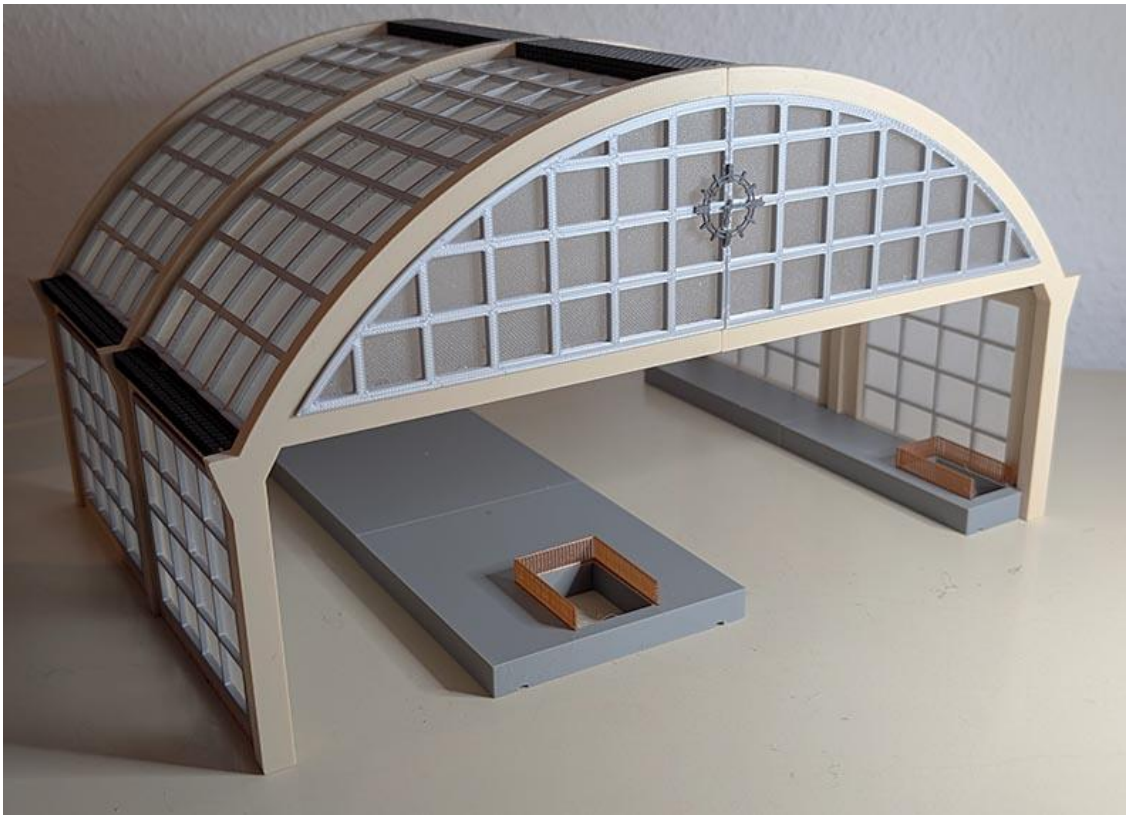


Figure 14 Station hall with two segments and platforms positioned, front view

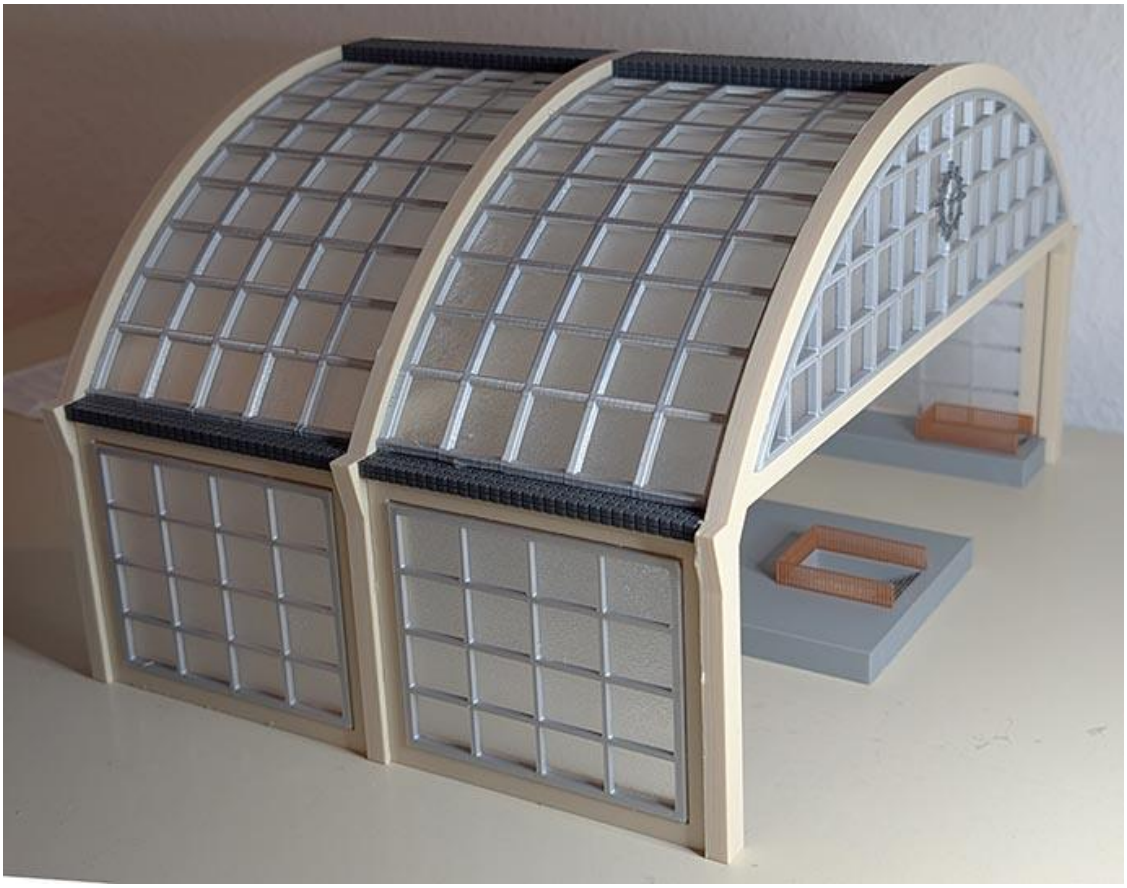


Figure 15 Station hall with two segments and platforms positioned, side view