



## Station for Märklin My World feat. PET Bottle Roof



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### Summary

A modular railwail station for Maerklin My World sets with a "glass roof" out of PET bottles.

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My son wanted to have a train station for his Maerklin My World set, so I thought I could also combine that with the PET bottle challenge.

There was only one PET Bottle in the house which was a Thomas Henry Tonic Water bottle that provides two roofs with 125 mm length and 80 mm in diameter. Luckily it was already empty, so I was able to take measurements and start developing without having several drinks first. I only own a Prusa Mini+, so I could not fit both roofs in a single model. Thus I went for a modular build.

Now we have one **main hall module** which takes the roof (you can print and link as many as you like) and one **entry/exit module** you should print twice. To hold a whole train, you will need **one module per wagon** in total.

The models are pretty basic, so a lot of possible future tweaks come to mind, like adding more detail like stairs, benches etc. but currently I have

limited time printing. One module takes about 5 hours, and I wanted to see the real-world modules in action before the contest is over. Also, the kids might not really care about more detail and are happy with the state it is in. ;-)

### Printing instruction time!

I printed in **0.15 Quality** with **10% infill**. And I chose the **Hilbert Curve** as top fill pattern which gives a nice finish for a train station's platform.

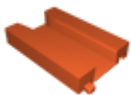
As for the roof: Cut open your PET bottle into two halves, remove top and bottom, and push the roof into the port at the top of the main hall module. I fixed them with a few drops of superglue.

To play you assemble all modules by rotating them into each other, that way I only needed one single model for the entry/exit modules. Slide the tracks inside and have fun!

## Model files



**main-roof-module.stl**



**entry-exit-module.stl**

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