Design of the pawns of Babbel bord

All the measurement will be in mm !!!

Main design

Find the link for this main design in this link, here you can also download the documents of this design already.
https://www.thingiverse.com/thing:1781622

The design of the pawn with the magnets will be adjustment on this one, see figure 1, in size and and the whole where the magnets are embedded in the bottom part, see the black box. There are two ways to embed the magnets. Option 1 flat, see figure 2 , option 2 sideways, see figure 3.

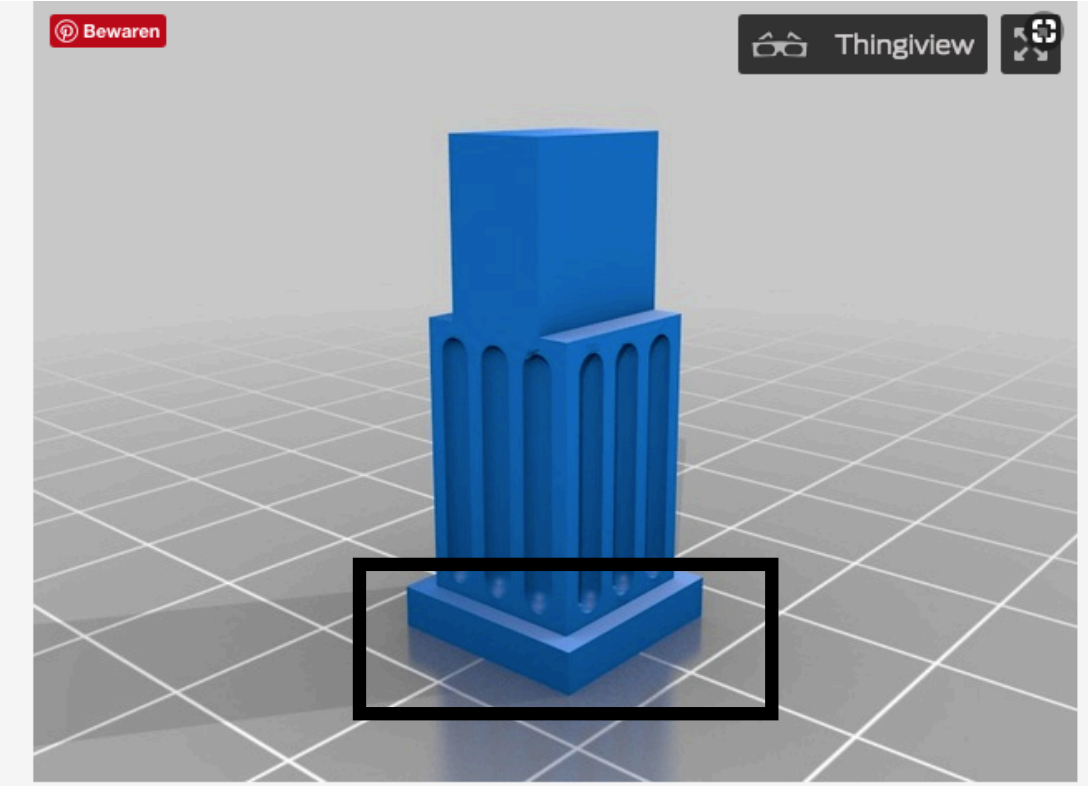
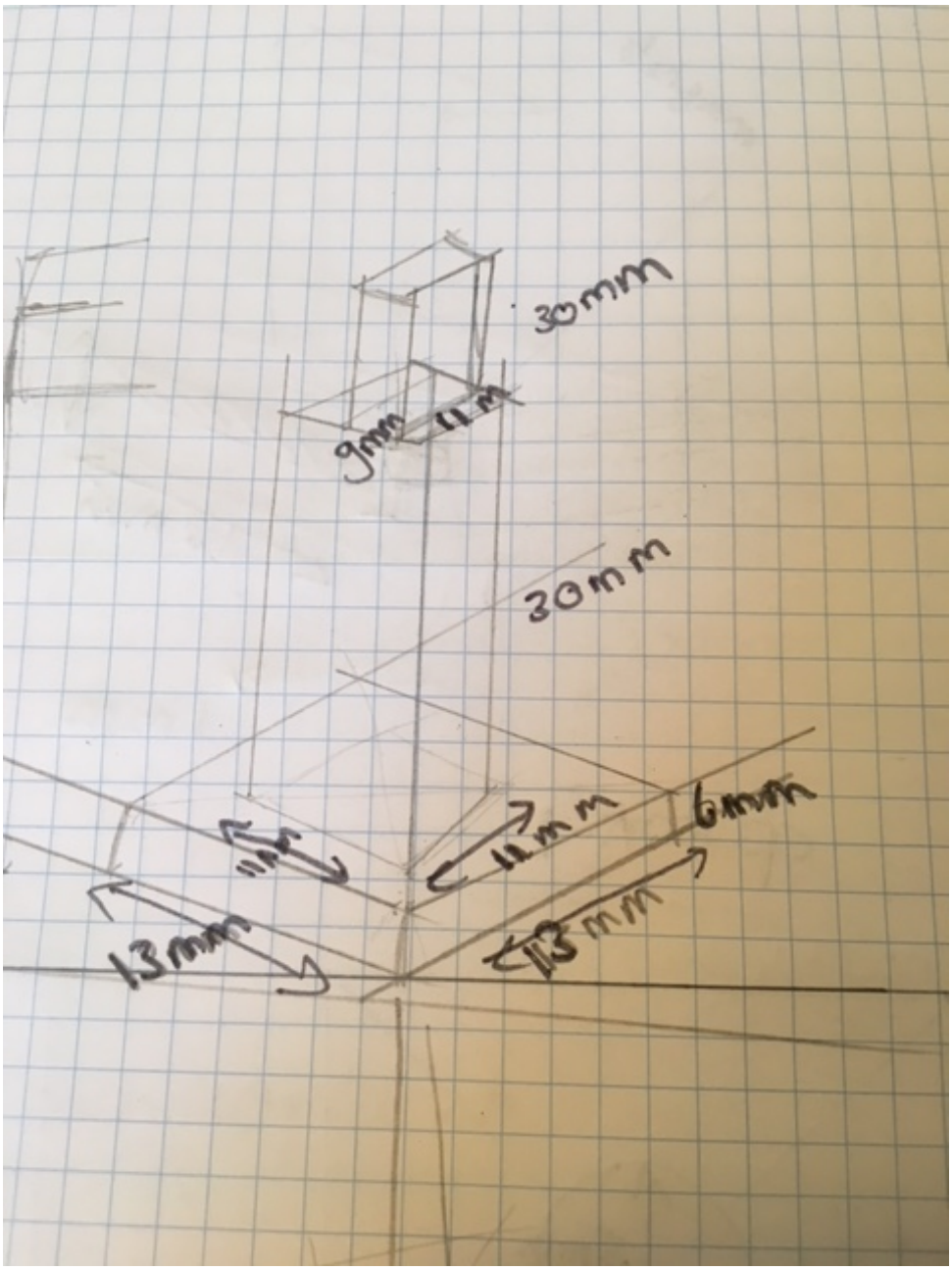


figure 1: total design of pawn

figure 2: magnet that are flat figure 2: magnet on their side

Designs drawings and measurements

Main
The main design needs to be adjusted:
The bottom part (l*b*h) = 13*13 *6
The top part have to be in proportion, so if this automatically can scale with the bottom part would be awesome otherwise: we do the height (middle piece and the part to grab the pawn times 10). The middle part is the half and the upper part is the half so)
Middle part : l*b*h= 11*11*30
Toppart(where you grab the pawn)l*b* h = 11* 9*30

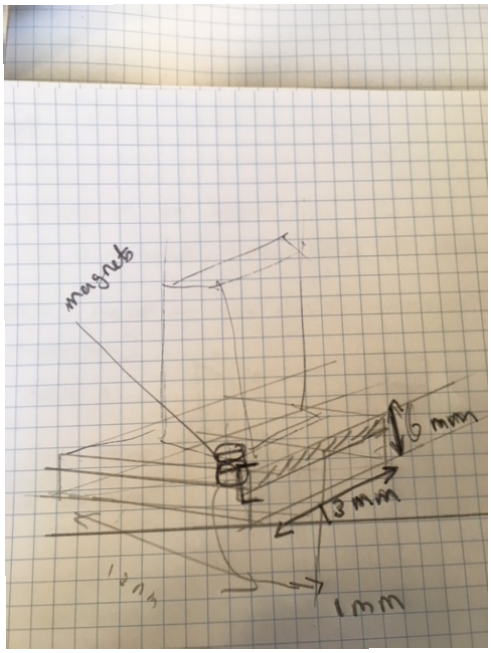


ps. Deze verhouding kloppen inderdaad niet, De toppart en middelhelft moeten ongeveer gelijk zijn.

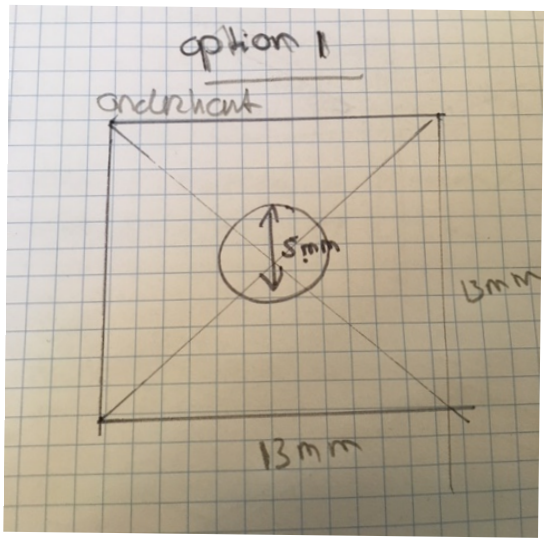
Bottom
The downside of the pawn should be open, such that you see the magnet on surface if you would rotate pawn upside down.

Bottom option 1: flat

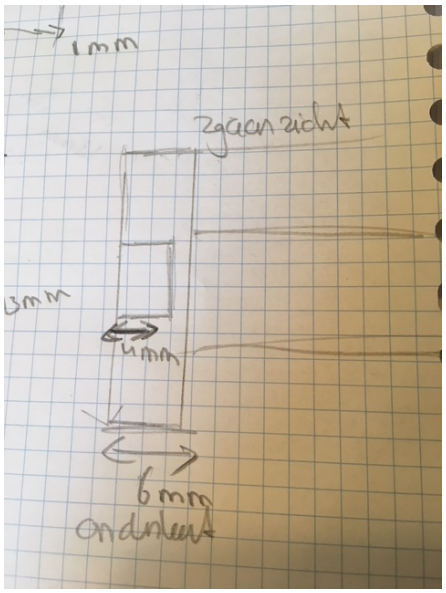
The diameter of the magnet is 5 mm and the height of the together is 4 mm. So the square whole/ round whole? should be l*b*h= 5*5*4 mm



Total overview



From the bottom



sideview(doorsnede)

Bottom option 1: on the side

By here you put the magnet sideways in the bottom of the pawn.The whole on the bottom round/ square l*b*h = 4*5*5