

Size of the brick

After determining the module size, the next step was to think about the size of a brick. We considered making multiple brick sizes to make the constructions easier to make. After some discussion it was decided that one brick size would be more practical.

Having only one brick size allows for easier production of the bricks in the beginning of the process. Besides that it provides a fool proof product chain on the building site. As the plan is to let the inhabitants of the camp produce the buildings themselves it seemed logical to us to make the production as easy as possible. Most of the people working on the project are most likely not skilled builders.

The size that was decided on is 250 mm x 125 mm x 125 mm. The length and the width of the brick fit in multiples in the module of five meters, making the need to cut the bricks a lot lower. The length is twice the size of the width. This makes it so that the bricks can be stacked to make a square but are also wide enough to create other patterns. The height of the brick is the same as the width. This was done so the brick would not cause any problems when rotated. This is useful when an arch is created.

At the end of the project we were not so sure about the height of the brick anymore. The width and the length preformed as expected but the height didn't work to well with the stair modules. This will be discussed further in the reflection.

Besides the standard brick there are four more building elements. These elements are used in the arches. These elements are a lot larger than the standard brick therefor the time it takes to dry these elements will be a lot longer. These elements are necessary to make the construction a lot easier for the people working on it. Therefore we think it is a good trade-off between having only one element and on the other hand the ease of constructibility.

Brick size

