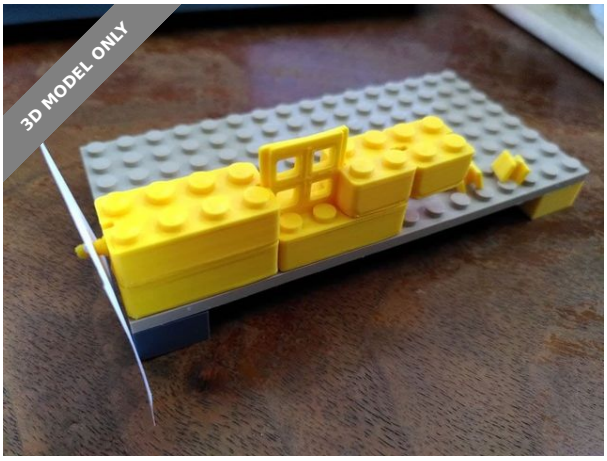

Kiddicraft Self-Locking Building Bricks

O Ortwin

VIEW IN BROWSER

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Summary

The original brick building system invented by Hilary Fisher Page of Kiddicraft as the "Self-Locking Building Bricks"

Toys & Games > Building Toys

Tags: lego legocompatible kiddicraft

The original brick building system was developed by Hilary Fisher Page of Kiddicraft as the "Self-Locking Building Bricks". Lego was the first copybrand, initially copying everything from moulds to box designs to printed paper parts. Unfortunately Hilary Page killed himself in 1957 due to financial troubles. Lego continued using and improving the system we all love without ever giving it's original creator proper credit. For more information on Hilary Fisher Page and Kiddicraft, check out https://www.hilarypagetoys.com/ .

In this project, I have tried recreate the original Self-Locking Building Brick system as a printable version. This is close to the original but not an exact replica. I put a focus on functionality as 3D printed parts. In the original system, bridges were done with a wooden strip and paper parts were fixed with a wooden push pin. For this 3D-print version of the system, I made a bracket for bridging which also works well and made the pin a similar way.

The system is fully compatible with all other bricks from Lego, GoBricks, Qman, Sembo, Cobi, Oxford, Mega Construx, Xingbao, Zhe Gao, CaDA, Panlos etc.

If you are looking for models to build, the Brighton Toy and Model museum has some scans of the original booklets). If you have a lot of modern building bricks and want to build some Kiddicraft models, check out my Rebrickable MOC. German entrepreneur Thorsten Klahold has revived the brand to create modern playsets at https://www.kiddicraft-bricks.de/ .

Material

PLA damages ABS parts so I usually print my bricks in ABS. PETG should be fine as well.

Print Settings

Rafts:

Yes

Supports:

Yes

Resolution:

0.2 mm layers

Notes:

Don't forget to compensate ABS shrinkage by printing at 101% size! Only then these are properly compatible with other manufacturers.

The parts are small enough to print with part cooling and non-closed printer if you print them one at a time. The push pin will be difficult to get to work without any cooling because it is very small.

Model files

window_2x3.stl

base_board.scad

door_2x4.scad

push_pin.stl

bridging_bracket.stl

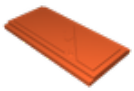
window_2x3.scad

window_4x2.scad

2x4_brick.scad

window_2x2.scad

bridging_bracket.scad



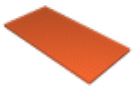
door_2x4.stl

window_2x2.stl

window_4x2.stl

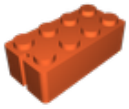
2x2_brick.stl

2x2_brick.scad



base_board.stl

push_pin.scad



2x4_brick.stl

Find source .stl files on Thingiverse.com

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