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BUILDING INSTRUCTIONS FOR MOBILE LEGO®-RAMPS

**This manual is for personal use only and not to be passed on without permission of Rita Ebel.
No liability is assumed for improper use and construction.**

Here is some basic information

- Only 1 stage can be bypassed
- Maximum not higher than 18 cm step height, otherwise it becomes much too heavy
- It is not a certified aid
- The use is at your own risk and no liability is assumed
- A second person should always be present for safety reasons
- The building instructions may not be passed on without our consent

The ramps do not comply with the DIN regulations for wheelchair or handicapped accessible ramps.

**We build these ramps exclusively from donated, mainly used
LEGO® bricks and for non-commercial purposes.**

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2-part ramp

The ramp shown has a height of 15 cm.

Weight per part approx. 10 kg

More difficult for pedestrians to negotiate, should only can be used as required.



1-part ramp

The ramp shown has a height of 9.5 cm

Weight approx. 10 kg

Also easy to walk on for pedestrians

Required tools and material



Cartridge press

Adhesive Sealer on MS-Polymer basis
(we work with Försch MS-P – dries quickly)

Folding rule
Cutter knife
Hammer

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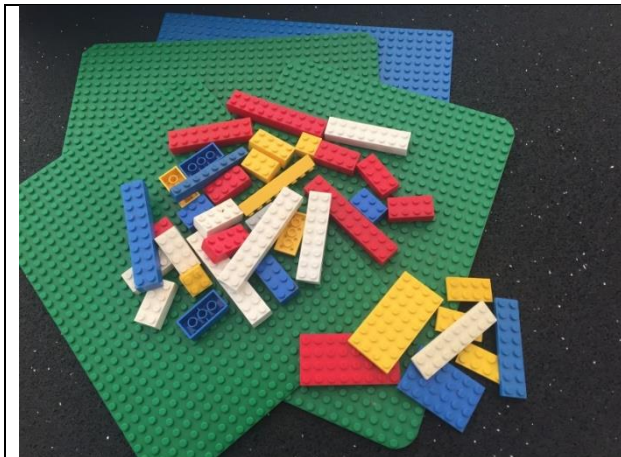
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Required LEGO® bricks



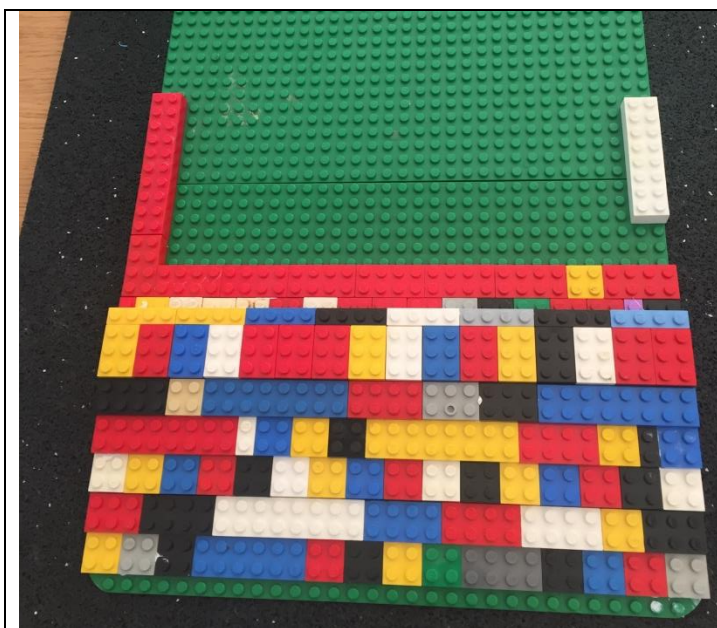
Base plates width 25,5 cm

Basic bricks

Basic bricks flat

in all **sizes** and **colours**

Informations on ramp height and ramp length



The length of the ramp depends on the height of the step to be negotiated.
1 cm height of the ramp requires a length of about 4.5 cm.

A few examples:

Ramp height: 8 cm = approx. 36 cm long

Ramp height: 10 cm = approx. 45 cm long

Ramp height: 12 cm = approx. 54 cm long

Ramp height: 16 cm = approx. 72 cm long

For practical reasons the maximum ramp height should not exceed 18 cm.

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Basic structure of the ramps



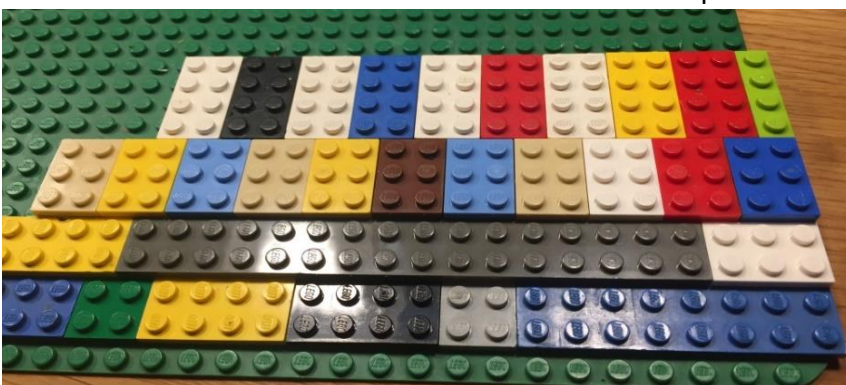
The first row consists of flat bricks - 4 rows deep



The second row also made of flat stones - 2 rows deep – offset to the lower bricks.



Next comes a row of normal basic bricks - 3 rows deep.



Now comes a row of basic stones - 4 rows deep, ideally offset to the front row

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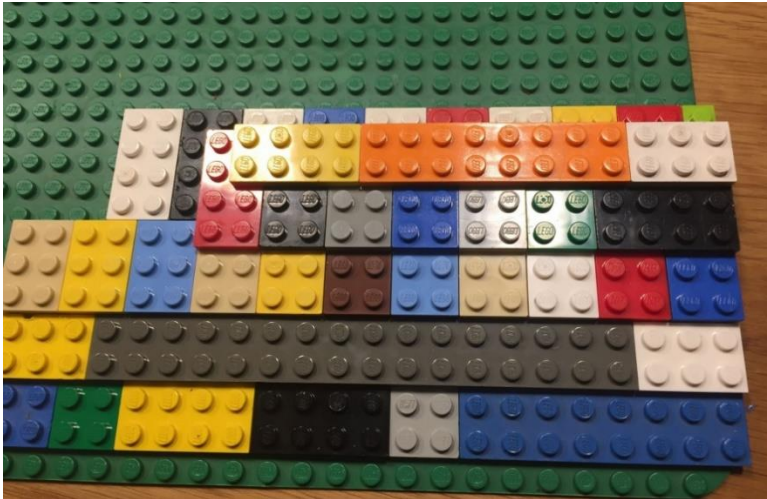
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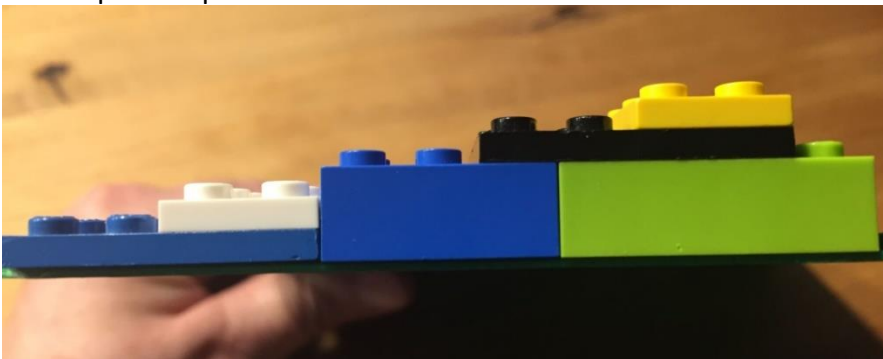
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Now repeat steps 1 and 2 with the flat bricks



From the side you can now see the structure - the gradient increases all 2 rows by 1/3 of the height of a basic brick



The further construction is repeated again and again with every new Slope or top layer.

At the bottom and at the back all existing basic bricks, also in other sizes, can be used. will be. You can set them criss-cross, but always offset to the lower stones, so that a bond is formed

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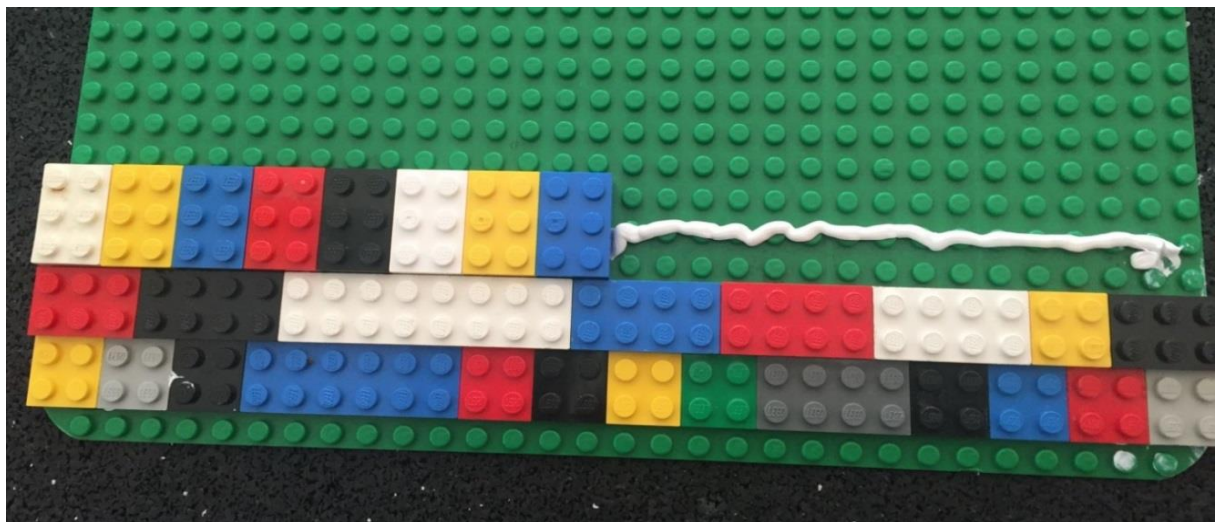
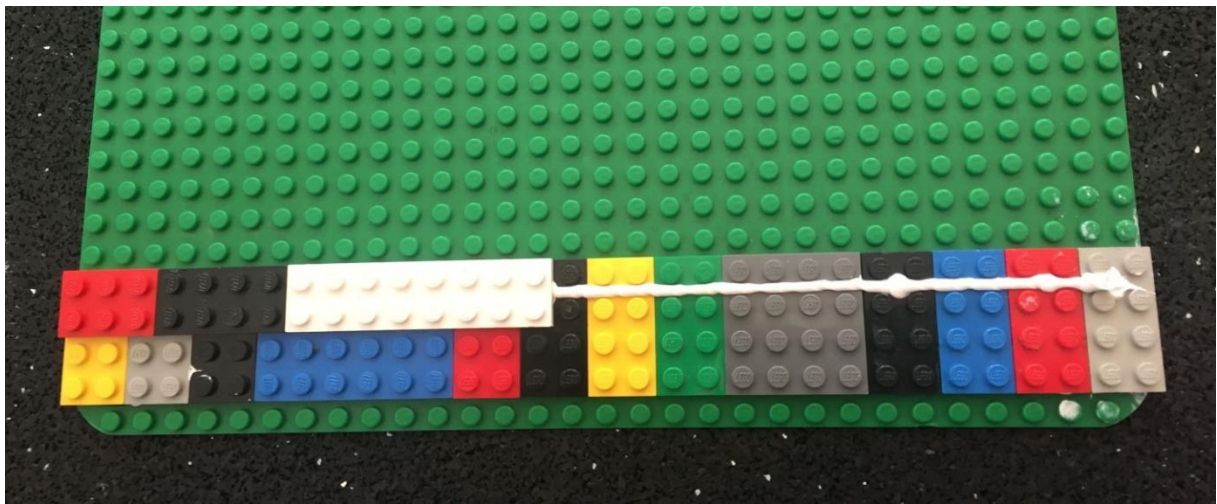
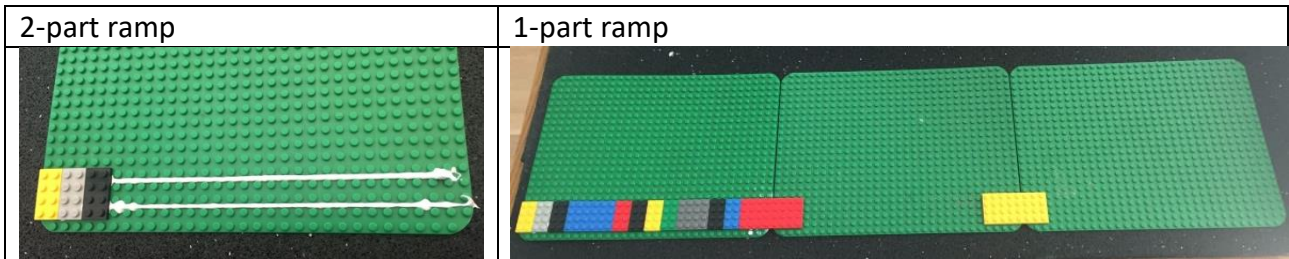
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Working steps / Building and bonding



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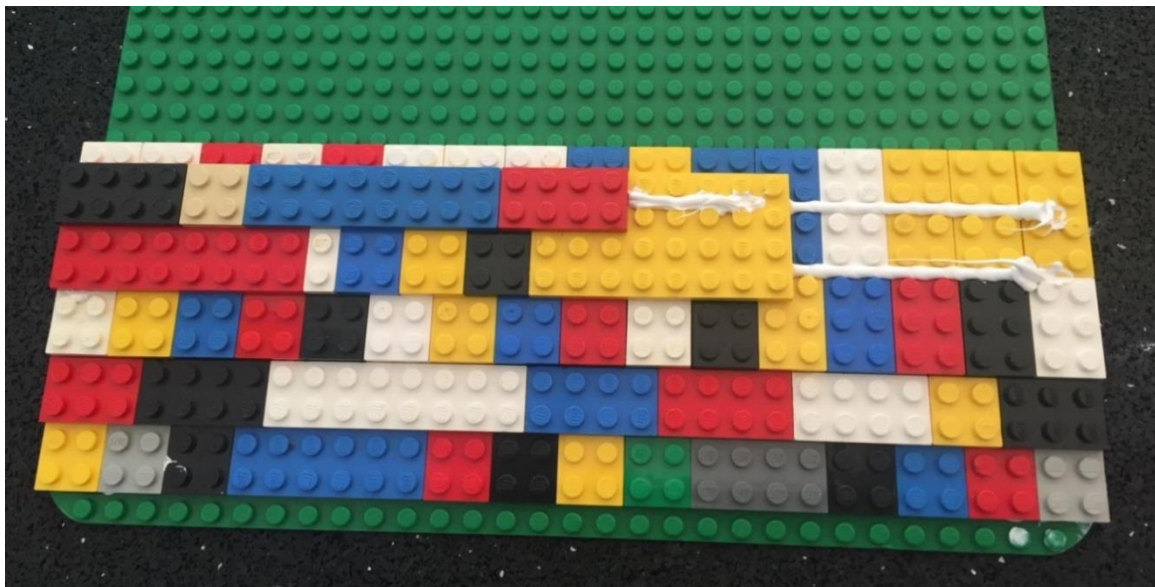
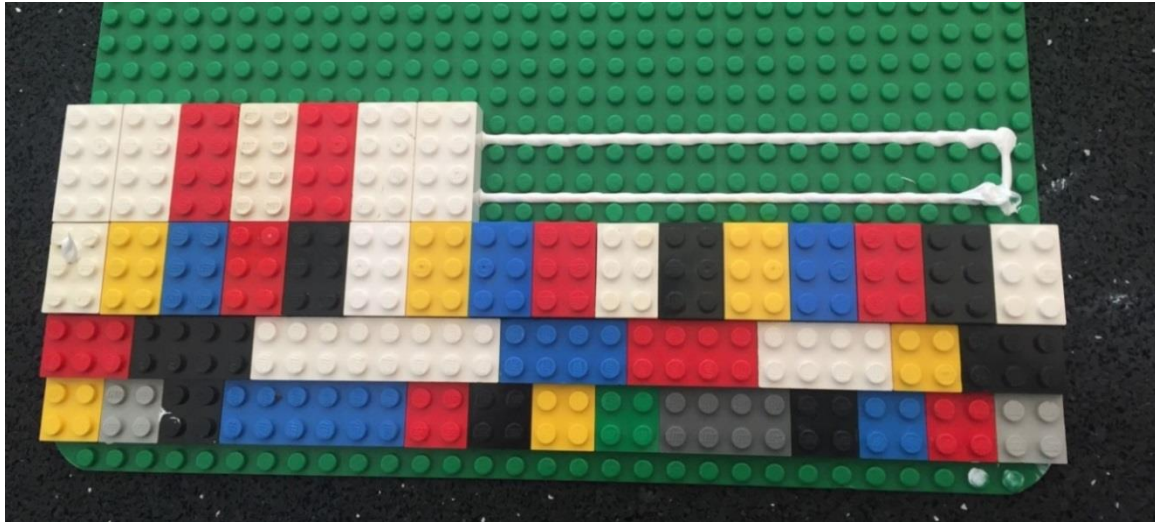
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Always make sure that the bricks are connected to each other so that the ramp is stable.
(Composite means that the bricks are placed overlapping the lower row)

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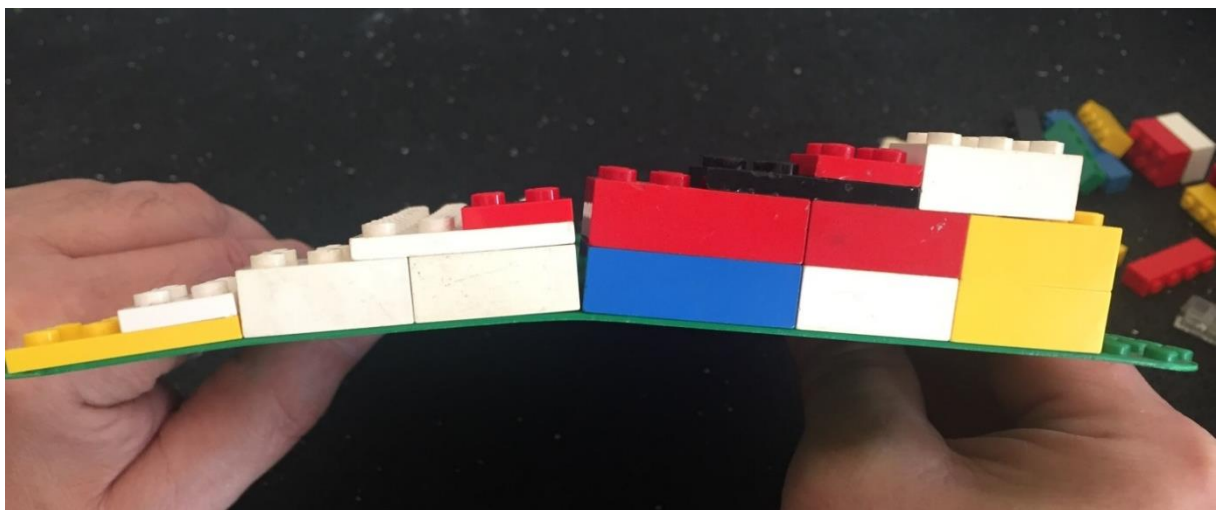
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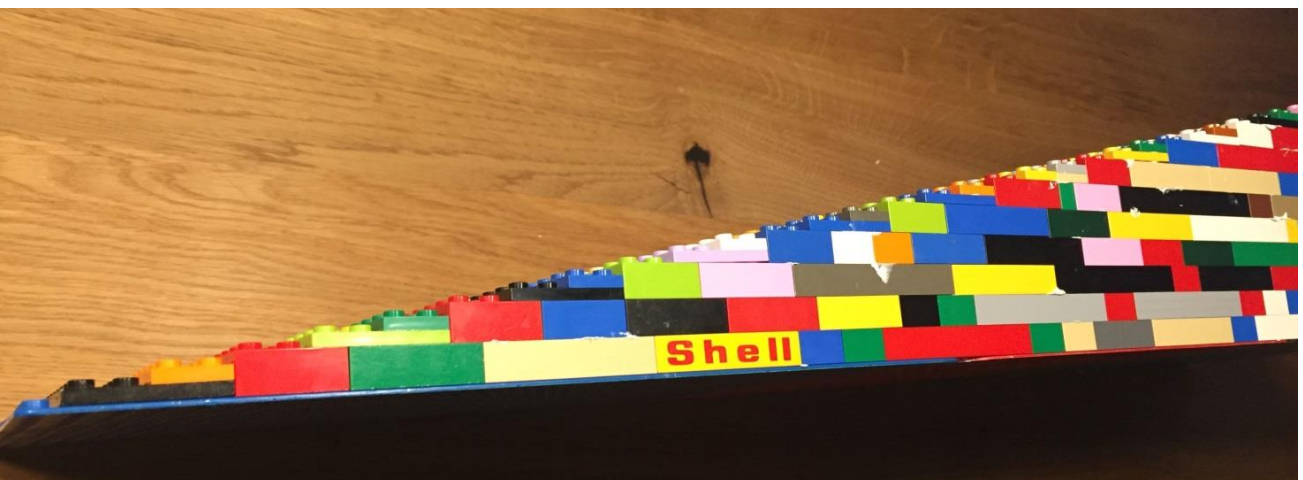
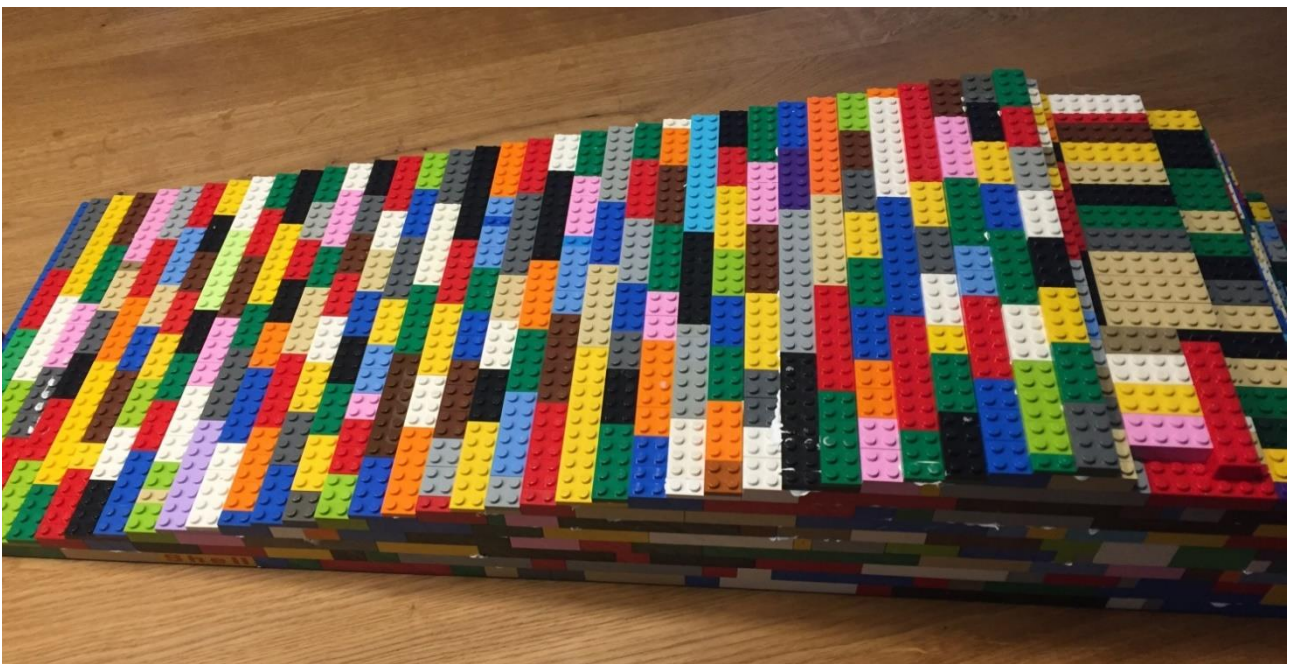
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In the further construction progress you can also use all other sizes and shapes of stones. Also Duplo® stones, single row, etc...



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Check from time to time how long you have to build the ramp.



Important! Always keep the height of the finished ramp slightly below the step height so that you do not get stuck when walking over it. We always put the ramp on the step before the last stones are glued.

When measuring, do not forget to consider the thickness of the granulate mat. The mats are available on rolls and cut to size.

The thin base plates can be cut to size with the cutter knife.

Finally, cut the granulate mats to size and glue them under the ramp with the same adhesive. Allow to protrude a little at the front.

HAVE FUN WITH BUILDING