

Foldable Stand

Take your desk anywhere with your backpack



Website: <https://foldablestand.com>

Introduction

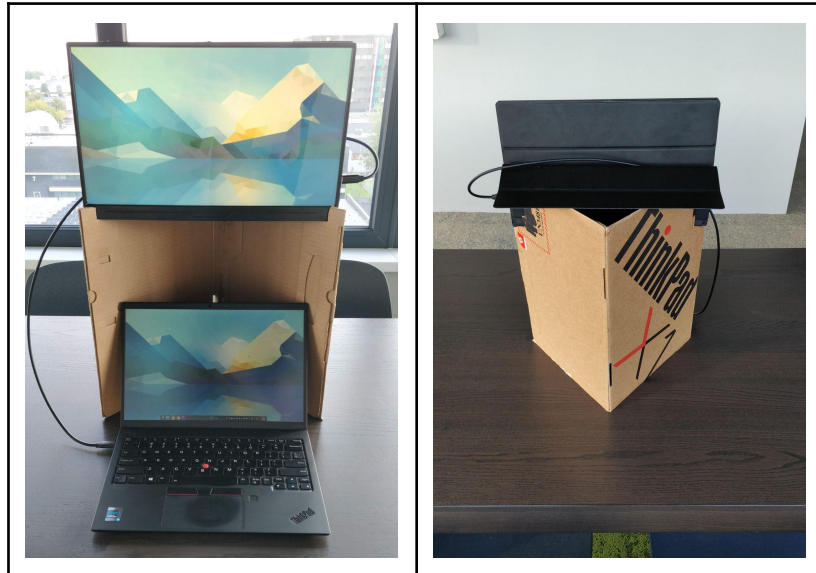
In this document, you can find the instructions to assemble your cardboard support for portable displays.

On our website <https://foldablestand.com/> you can find more project information, use cases and recommended secondary screens and where to buy them.

Results obtained

Here are images of how the cardboard would look, in this case, the same box where the laptop arrived has been recycled.

You get a raised screen and avoid the neck pain of constantly having to look down.
It is not necessary to carry an external keyboard since you can use the same laptop.



Standing up

Another advantage is being able to use cardboard to work standing up anywhere. It is not good for the body to sit for long hours.



Portability, work anywhere

The biggest advantage is that it fits everything in a backpack, and it weighs very little, less than 1kg and the laptop and charger weigh a little more than 1kg. In the end, you carry about 2kg that allows you to work in any coffee shop or coworking.



Materials needed

- Cardboard box (can be the same packing your laptop)
- Scissors or cutter
- Glue or adhesive tape
- Measuring tape




The cost is practically zero, you can recycle cardboard boxes and use scissors or a knife that you already have, or buy the materials very cheaply in almost any supermarket or stationery store.

Thicker cardboard for strength and durability

We do not want our cardboard to bend and spoil while we carry it in our backpack, nor do we want the weight of the screen to cause the cardboard to bend.

We recommend that you use double cardboard instead of a single layer one. You have the following options:

- You can buy one on Amazon or at many stationery stores. It's very cheap.
- Another option is to glue two simple cards to get a double-layered one at home.
- And another option is just to reinforce the corners. It is an option slightly weaker, but the one that works best is if you have a little cardboard, because you are recycling old boxes.

		
Cardboard single layer	Cardboard with double layer	Cardboard triple layer

As you can see, the simplest option is to use layer cardboard, but we recommend using a double layer for its ruggedness. The triple layer cardboard is much more robust but also bulky and unnecessary.

Using glue or tape

There are two options for mounting the cardboard stand, and this depends on the materials you have on hand.

IMPORTANT NOTE: Depending on whether you want to use tape or glue, you must use one or the other of the designs that we show you on the following pages of this PDF. There are two different planes, one with a "tab" so you can make the "stand hinge" with just cardboard and glue, and there is another design where you use masking tape and you don't need the tab or glue.

Using only glue

Is ideal if you only have glue on hand. Most glues will work.

It is the easier way if you do not have double cardboard, since you have to glue several parts and you want it to be as rigid as possible.

Using adhesive tape

This way is the simplest, but we only recommend it if your cardboard is double and you only need to join the two sides of the support. The tape will be the "hinge" that allows the support to be folded.

Construction and Assembly

Design 1 (Simple with adhesive tape)

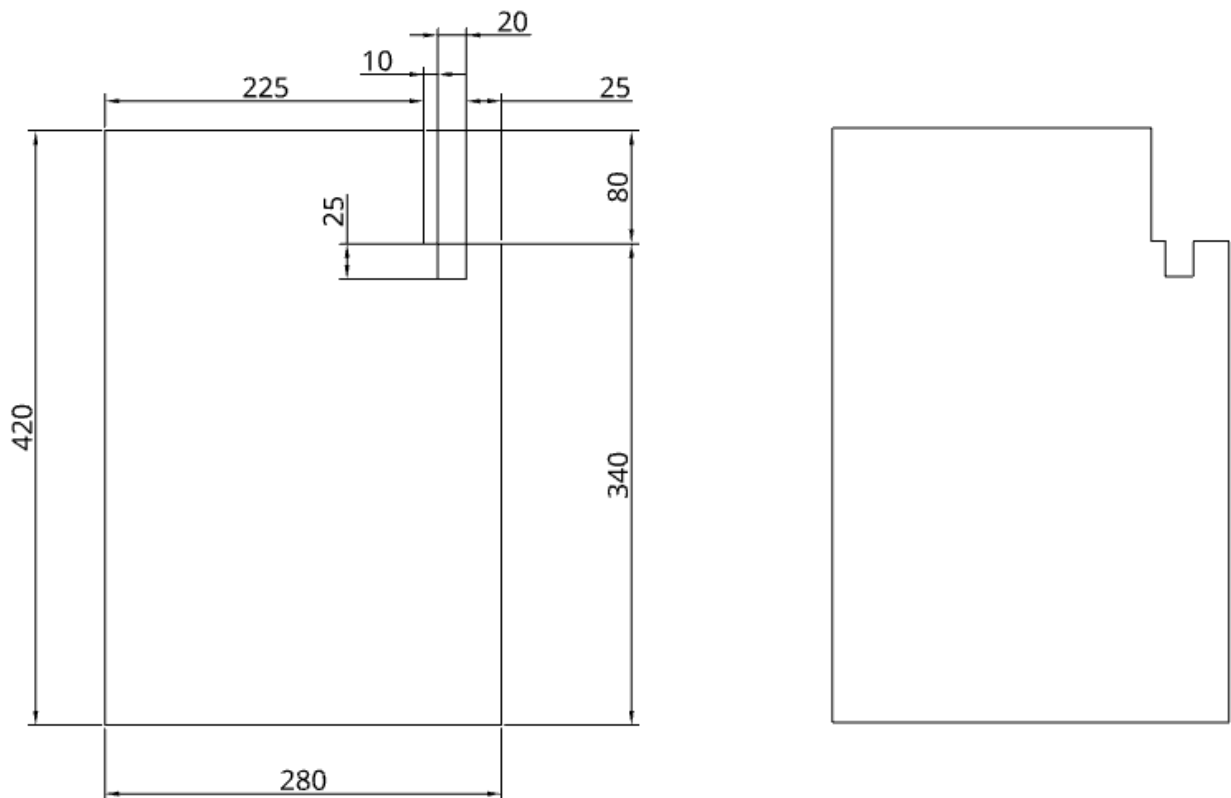
This is the simplest design to assemble. You only need two DIN A3 cards and a little adhesive tape.

Step 1 (Cut)

Cut the two pieces of cardboard according to the measurements that you can see in the following image.

Since the two cards are identical, you can use one as a template for the other.

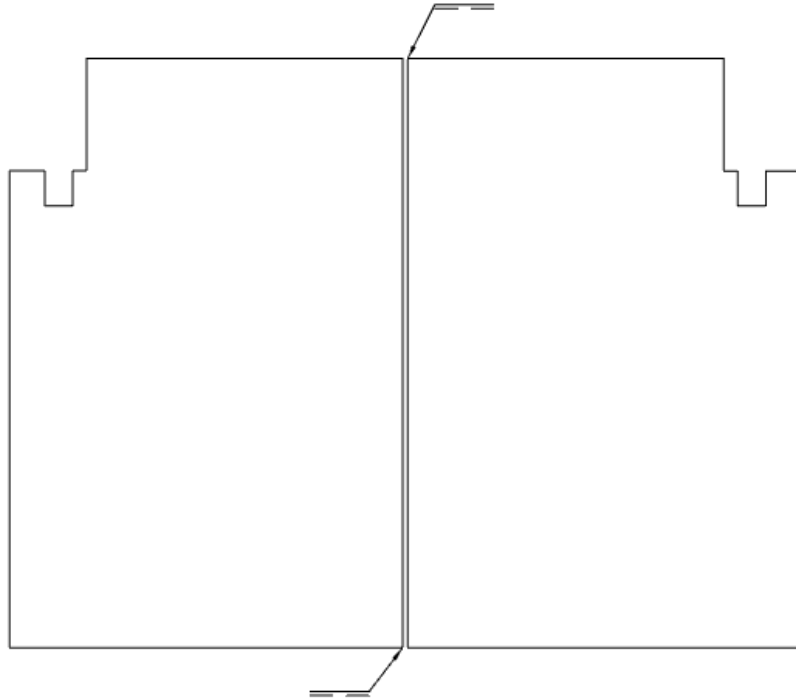
Note: Dimensions are in millimetres.



Step 2 (Tape)

You glue the two cards together using adhesive tape.

The adhesive tape must go from the upper arrow seen in the image to the lower date.



Note: We recommend that you put the adhesive tape vertically and that you put it in front and behind. This will prevent it from coming off easily.

Design 2 (With cardboard and glue hinge)

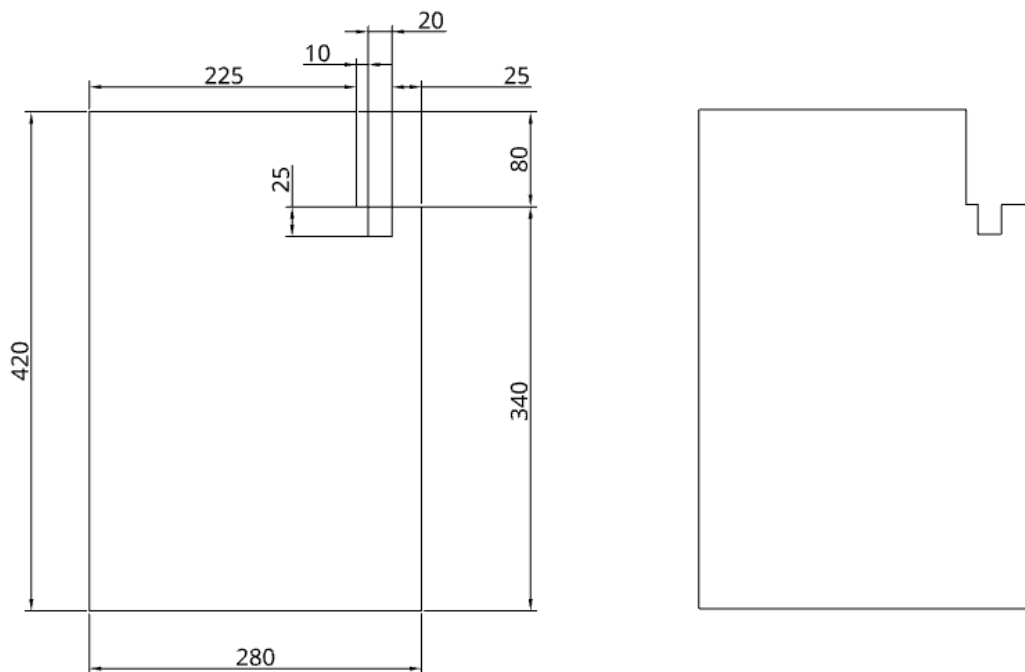
This design is in case you do not want to use adhesive tape, it is based only on cardboard and glue.

Step 1 (Cut)

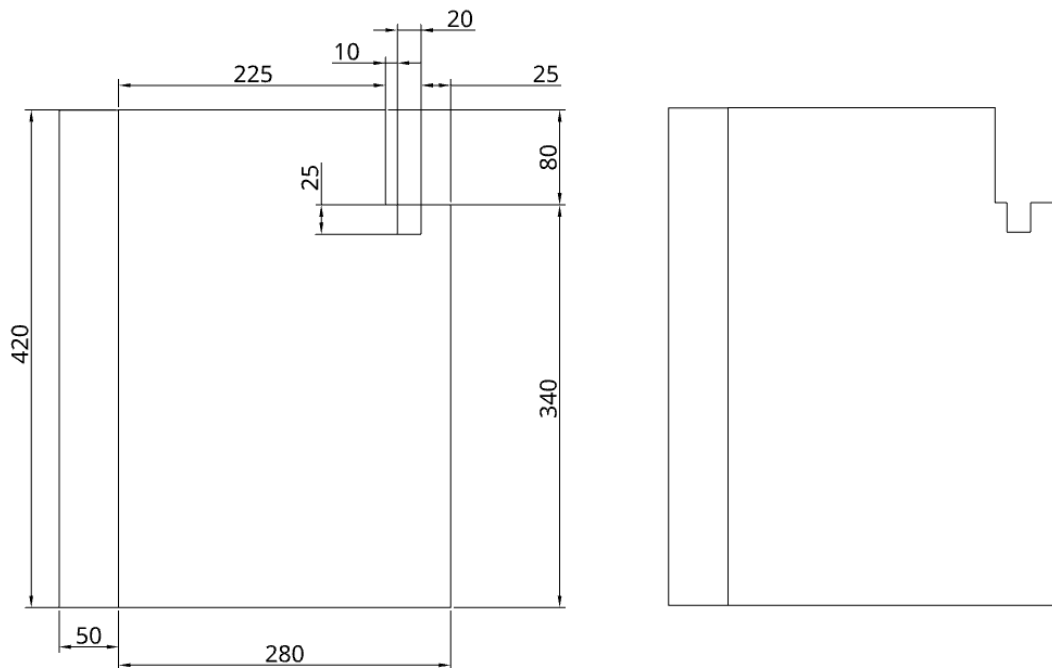
Cut the two cardboards according to the measurements in millimetres that you can see in the following image.

Attention: The two cardboards are NOT identical, and you CANNOT use one as a template for the other. They are very similar, but not identical.

Cardboard 1

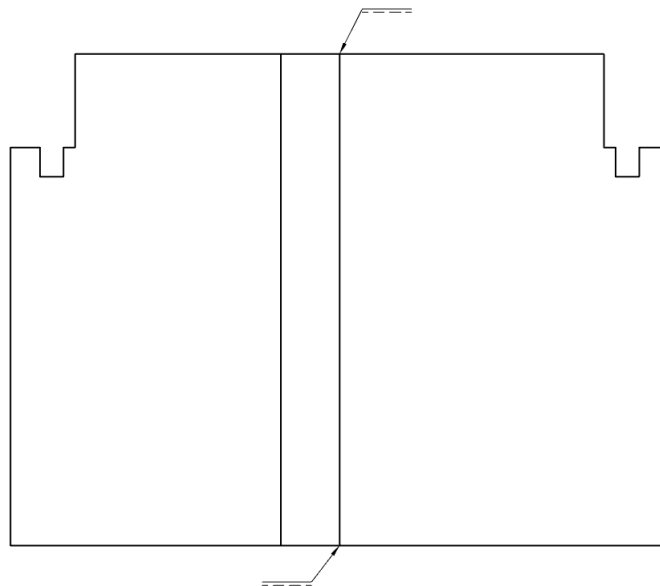


Cardboard 2



Step 2 (Glue)

It is as simple as putting glue on the tab and glueing the tab to the other cardboard.



Design 3 (Pasting cards to have double sides)

This design is the same as design 1 or 2, but with the difference that instead of cutting two cards you have to cut 4.

Then glue both sides to have the equivalent of two double-layer cardboards.



The idea is to use two thin pieces of cardboard and glue them together.



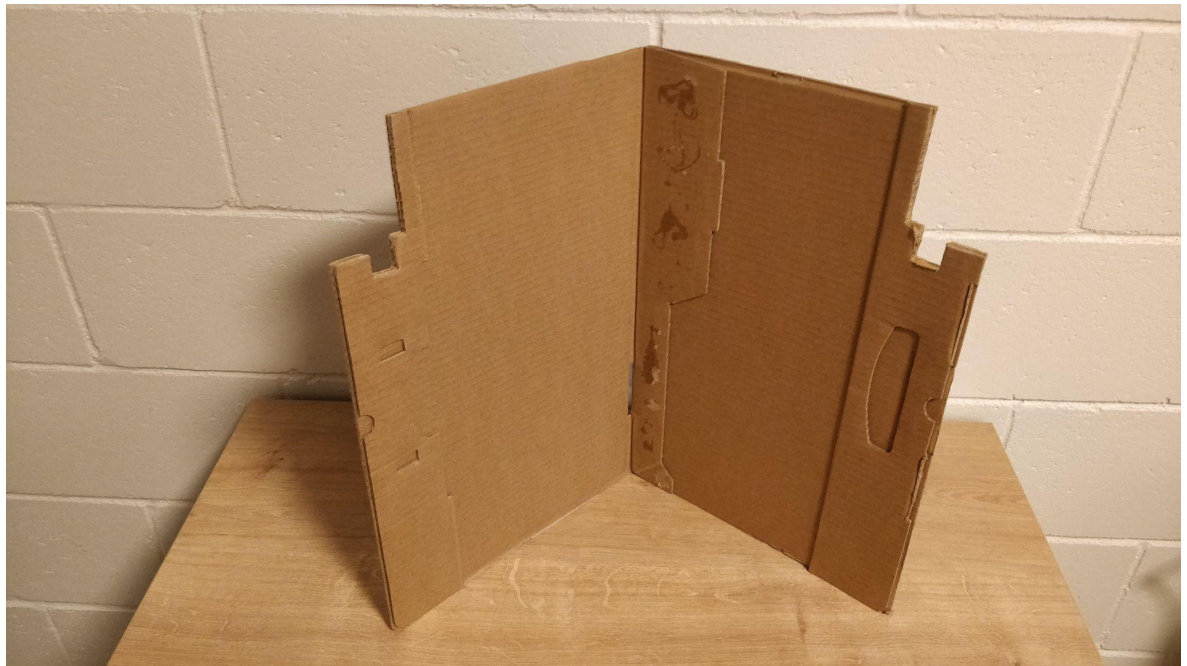
And get a much stiffer double cardboard.

Once you have the two cards glued, you have to carry out the same steps as in "Design 1" or "Design 2" respectively.

Design 4 (lateral reinforcement)

This design is the same as design 1 or 2, but with the difference that instead of cutting two cardboards you have to also cut some lateral reinforcements and glue them.

This side gusset design is perfect if you recycle cardboard boxes and have little cardboard available.



This is an example of how the reinforcements glued on the sides would look like

Secondary Screen

Cardboard is compatible with most secondary screens. 13 ", 15" or 17 ".

On our website, we leave you a list of recommended screens: <https://foldablestand.com/>

For better portability and the use of fewer cables, it is better to use a USB type C cable if your laptop has support for it.

Just like that, enjoy your portable and environmentally friendly desktop at a low cost.