




# SunZilla - Guide 3: Solar box

This is the third tutorial for building the Pop-up Solar Generator: SunZilla 3.0. Here we are going to build the solar box.

 Difficulty **Medium**

 Duration **2 hour(s)**

 Categories **Energy**

 Cost **200 EUR (€)**

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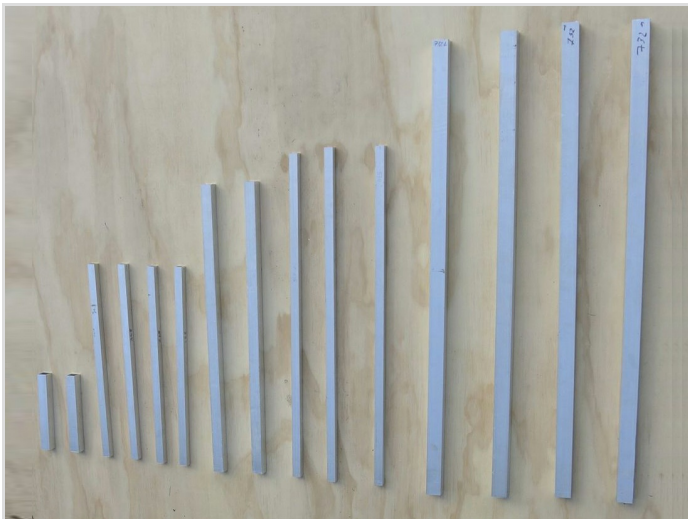
Step 4 -

Comments

## Introduction

In the case of the solar box, the inner structure is constructed using square aluminium profiles.

Having already drilled holes in the prepared square aluminum profiles as specified in the "mounting system" technical drawing PDFs (see step 3), this step is about assembling them to form the inner structure of the solar box.



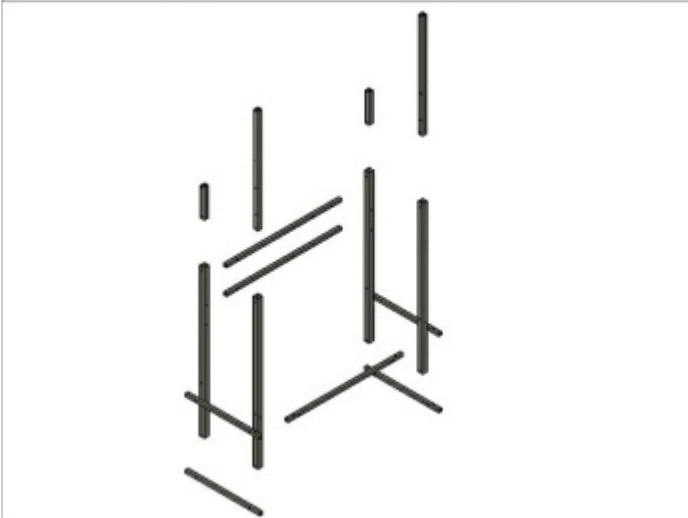
## Materials

- 4 x Squared aluminium profiles, 732 (l) x 25 (w) x 2 (th)
- 2 x Squared aluminium profiles, 200 (l) x 20 (w) x 2 (th)
- 2 x Squared aluminium profiles, 515 (l) x 20 (w) x 2 (th)
- 3 x Squared aluminium profiles, 560 (l) x 15 (w) x 2 (th)
- 4 x Squared aluminium profiles, 370 (l) x 15 (w) x 2 (th)
- 14 x Hexagonal bolts, M6 x 50 (l)
- 14 x Self-locking nuts, M6
- 28 x Washers, M6
- 4 x (Wing) bolts, M6 x 40 (l)
- 8 x Wing nuts, M6
- 4 x (Wing) bolts, M6 x 30 (l)

## Tools

The positions can be seen in the following technical drawings. The profiles can be screwed together with bolts, washers and nuts.

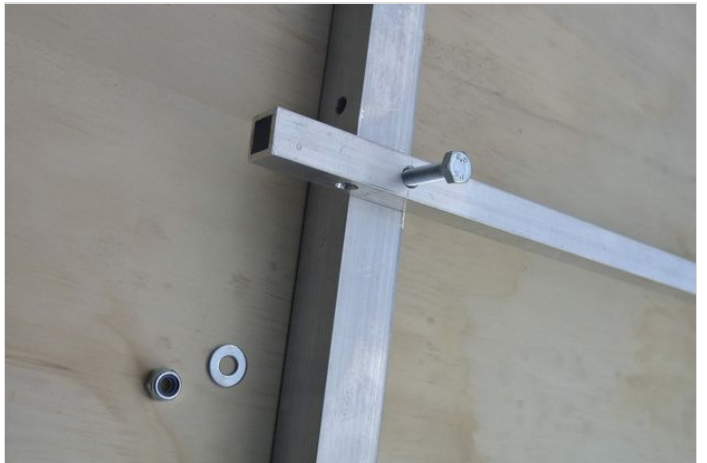
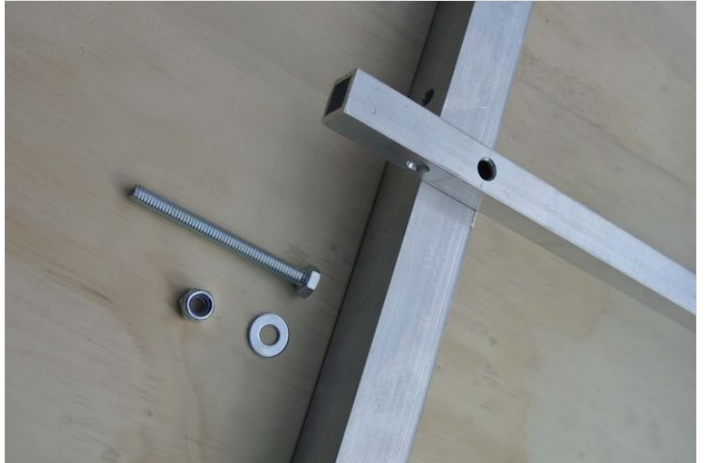




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## Step 1 -

First, connect the 25 mm wide vertical profiles with the 2 long 15 mm wide horizontal profiles, like you can see in the following photos.



NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET

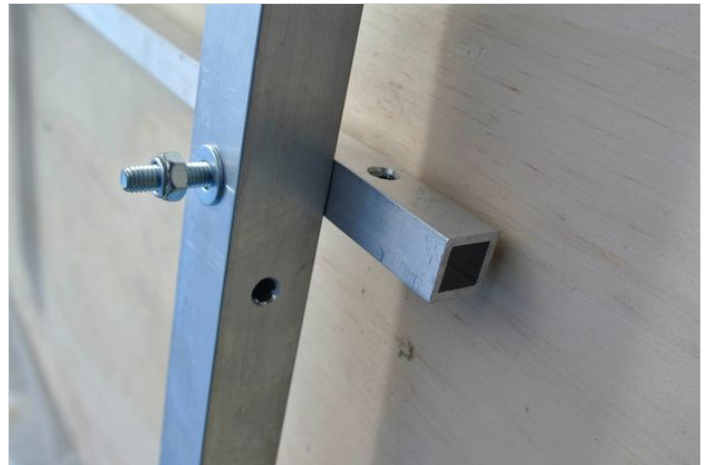


Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

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## Step 2 -



NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

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### Step 3 -

Then attach the short horizontal profiles to one of the already connected sides. Finally, connect the two parts.



NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.



NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

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## Step 4 -

So that you get the following structure in the end.



NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
prefer the landscape format.

NO IMAGE YET



Recommended sizes: 800 / 600 px

All sizes are accepted. If it's possible,  
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NO IMAGE YET



Recommended sizes: 800 / 600 px

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