SolarOSE - Guide 4: Skeleton of the receiver

This is the second tutorial for building the solar concentrator of Open Source Ecologie (French branch of Open Source Ecology). Here we are going to build the mirror facets.

Difficulté **Moyen** | Durée **3 heure(s)** | Catégories **Énergie** | Coût **100 EUR (€)**

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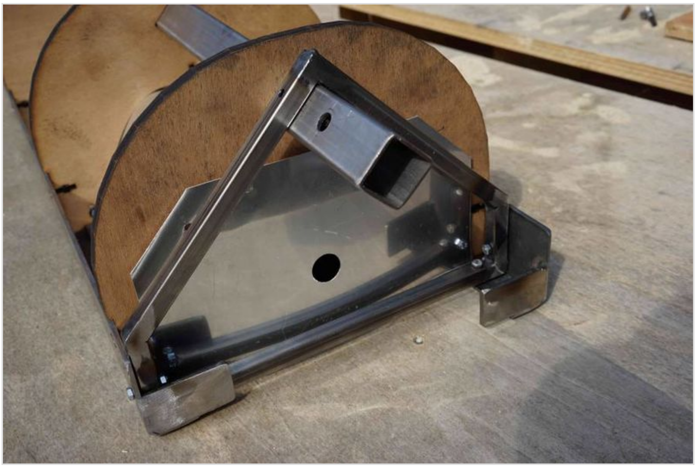
Matériaux

Outils

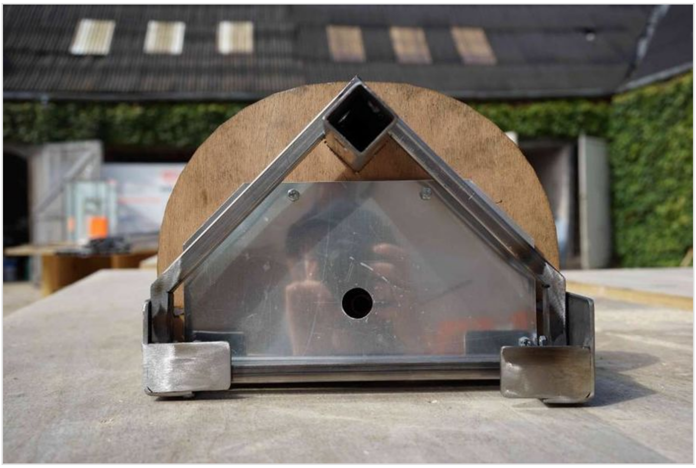
Étape 1 - Main beam

Cut the 30x30x2300 mm square tube. Drill the fixation holes of the tepee. Drill and tap at 5 mm diameter the fixation holes of the junction.



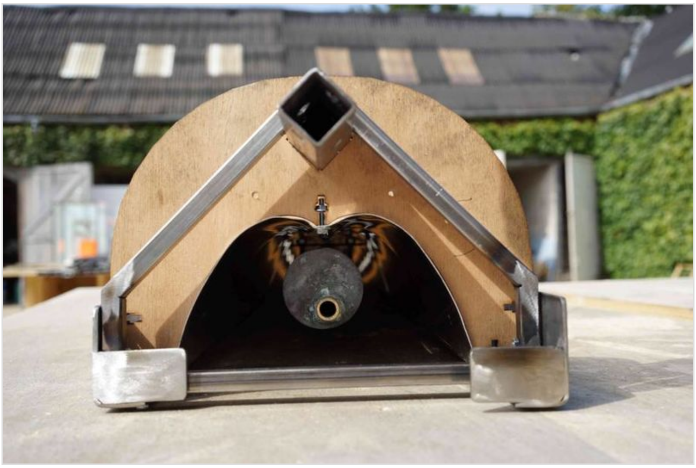
Étape 2 - Lateral 'L' profiles

Cut two L profiles 30x60 mm, thick of 3 mm and long of 2100 mm.
Drill and tap the fixation holes of the exterior cover, screw with a diameter 4 mm.
Drill the fixation holes at the junction, as depicted in the 3D model. Improvement: drill 2 holes on the side and none on the bottom of the L.
Weld a flat at each edge of the L (for the fixation on the “tepee”…).



Étape 3 - Junction of the main beam and the lateral L profiles

Cut, drill, weld according to the 3D model.



NO IMAGE YET

Recommended sizes: 800 / 600 px

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

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Étape 4 - Hanger

Print the 10 hangers at the cutting laser. The material used is a wood board (for example laminated structural wood) with a thickness of 10 mm.
Cut shapes of 2 hangers (with a cutting laser or manually), without emptying them. They are needed for the secondary reflector in order to close the receiver on its edges.
Link to the file for printing!