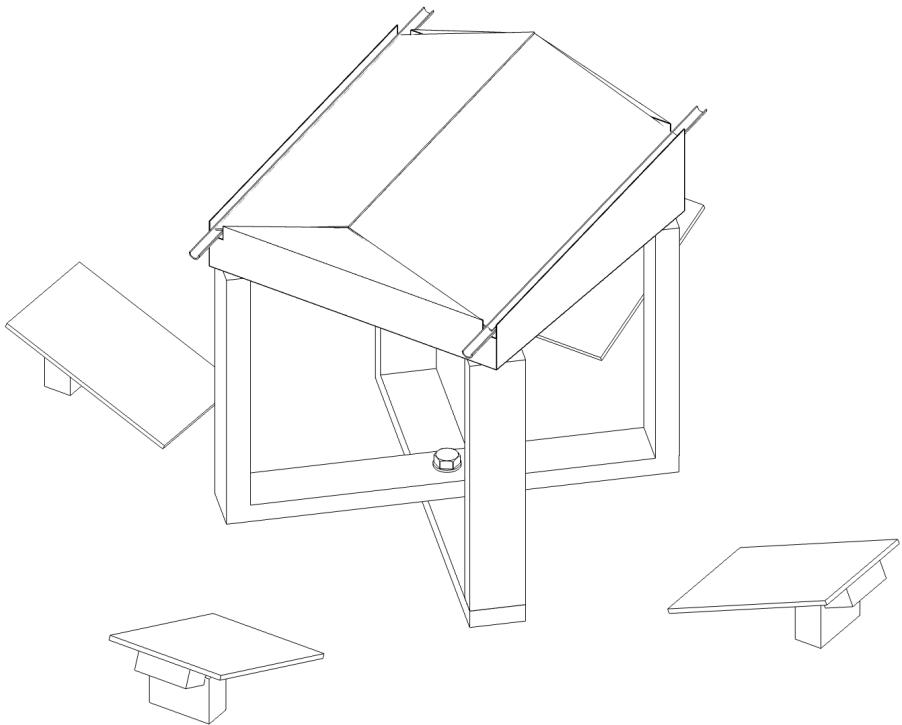


NaCl-ater: Solar Desalination System

Assembly and maintenance guide



Preface

This guide is intended to give simple instructions on construction and maintenance the desalination system.

All dimensions are given in inches.

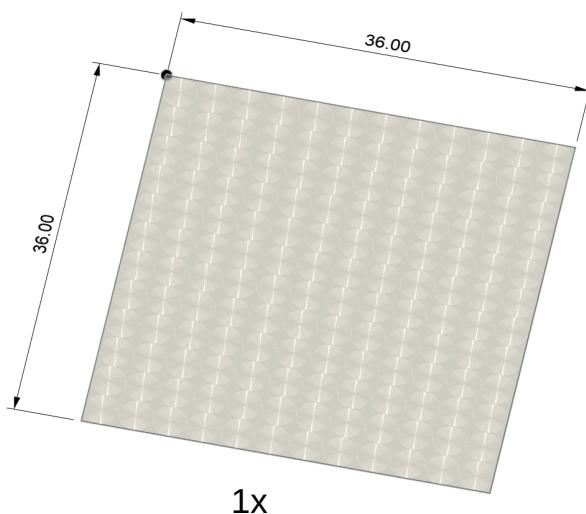
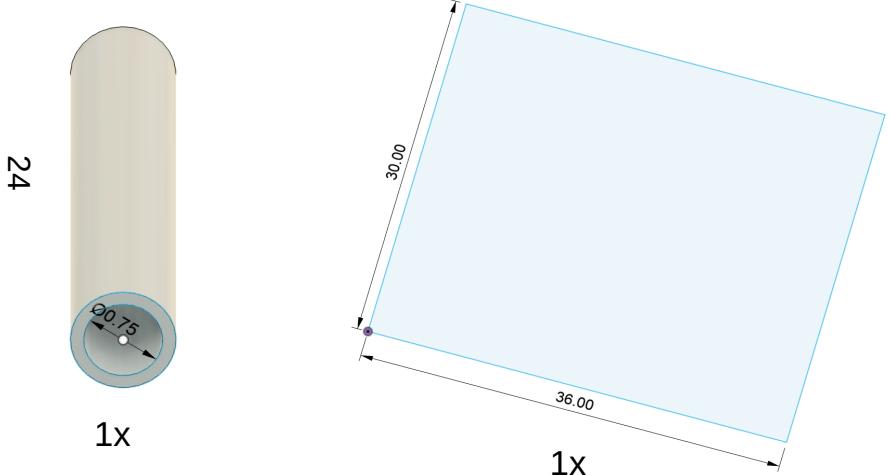
This model was based on the materials in Canada and may not be exactly accurate to their available resources and any replacement materials may be used to construct the system

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Gutters	5
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Materials

Materials



Materials



L:

- 2x - 22 1/2
- 2x - 21
- 1x - 30
- 1x 26



1x



1x



1x



1x



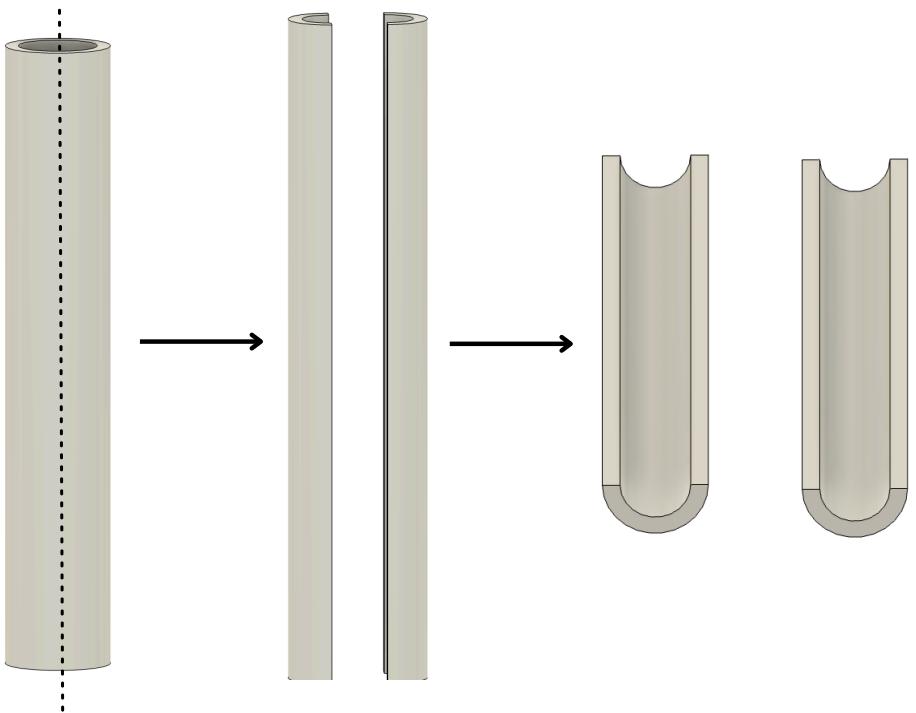
1x



1x

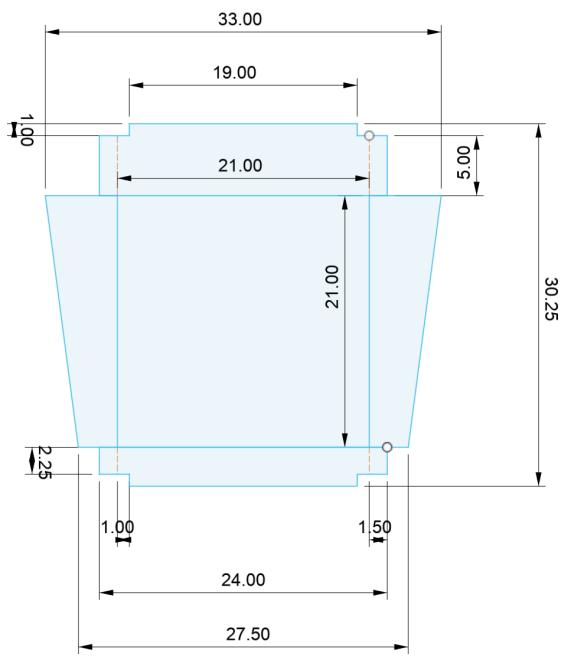
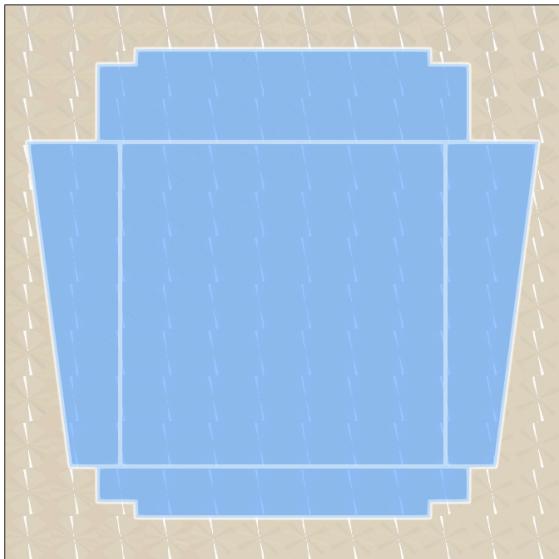
Gutters

Pipe

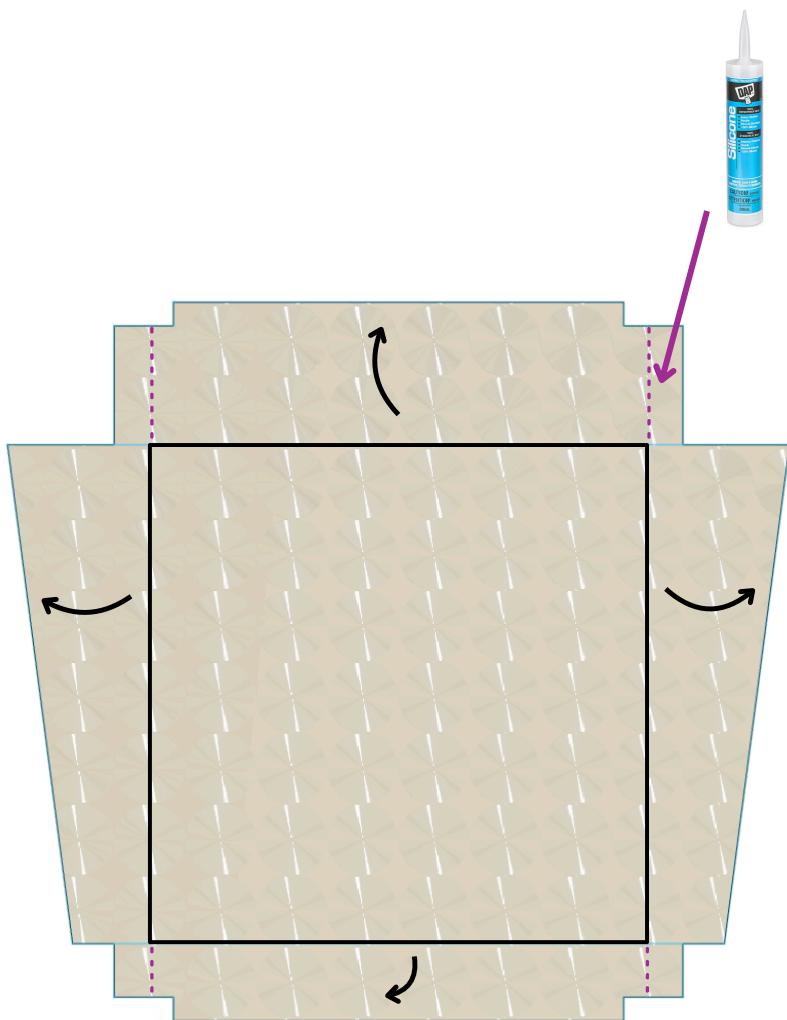


Basin

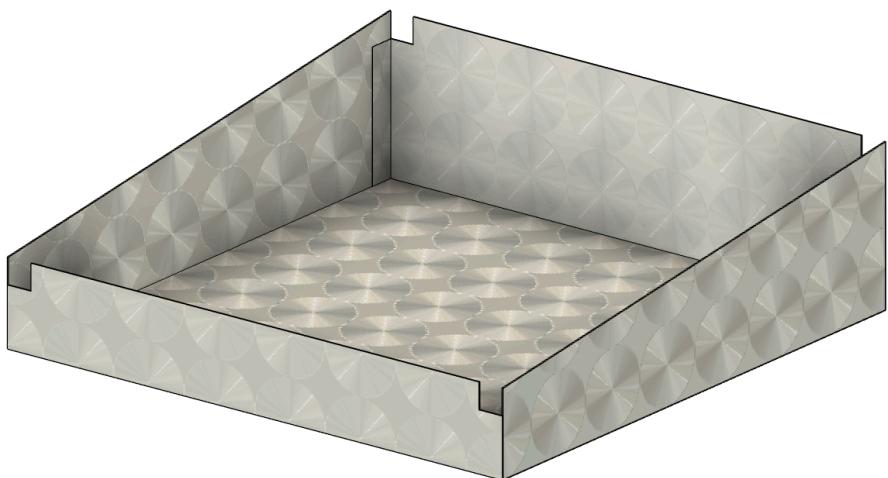
Dimensions of cuts



Flat layout with folds

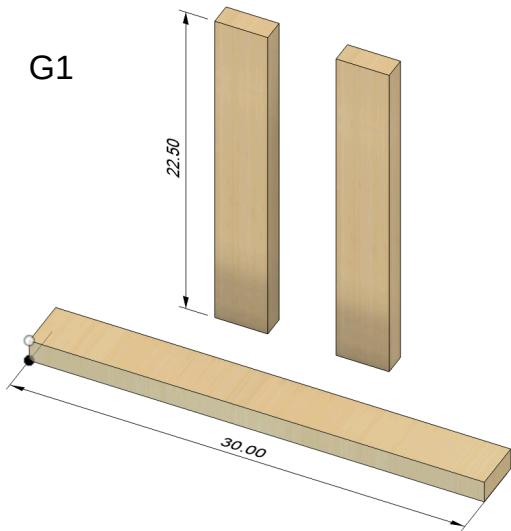


Folded into basin

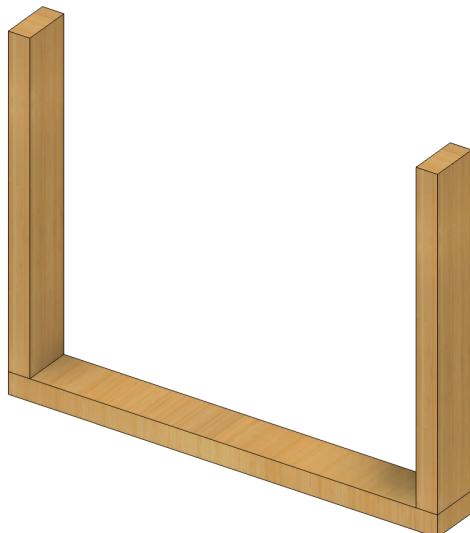
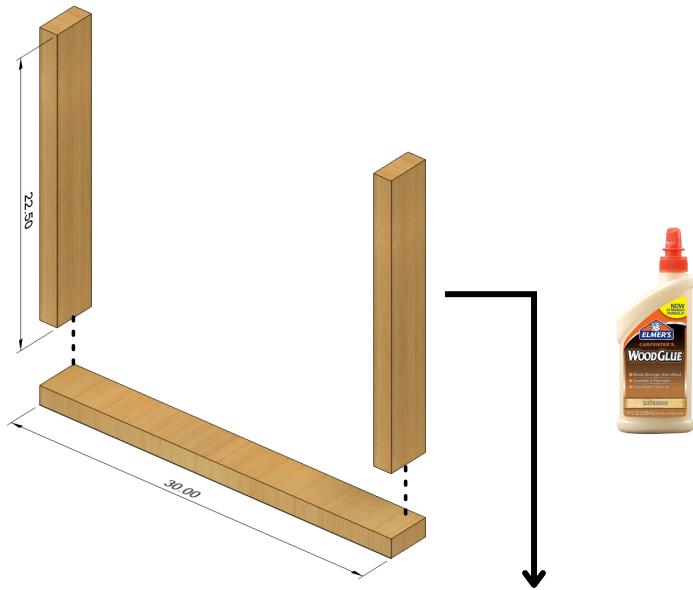


Stilts

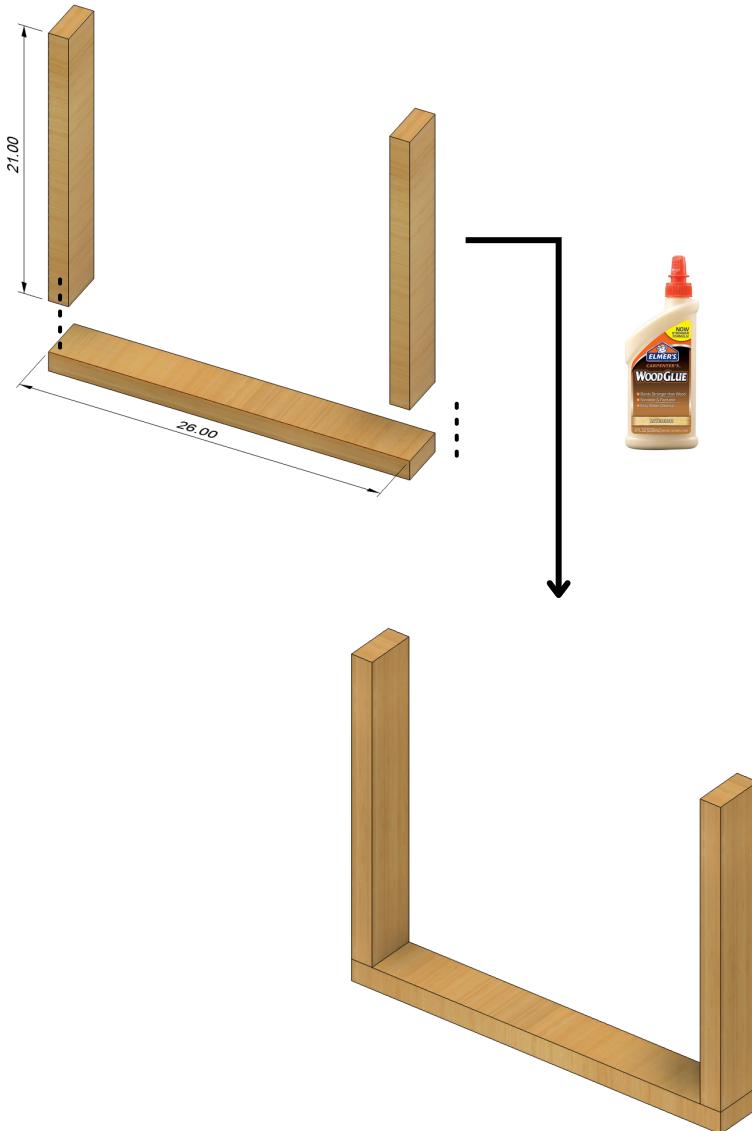
Individual stilt sizes

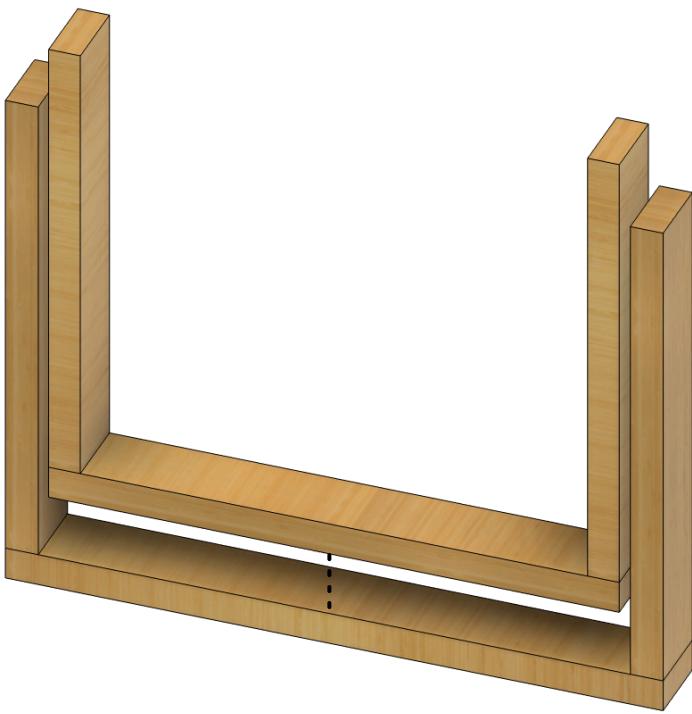


G1 stilts



G2 stilts





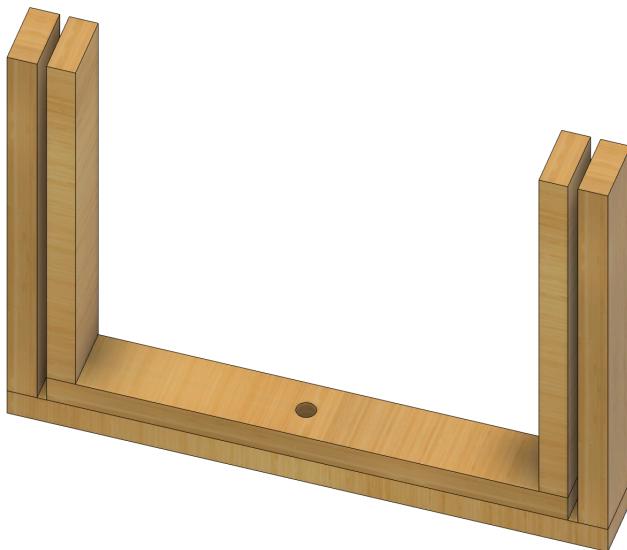
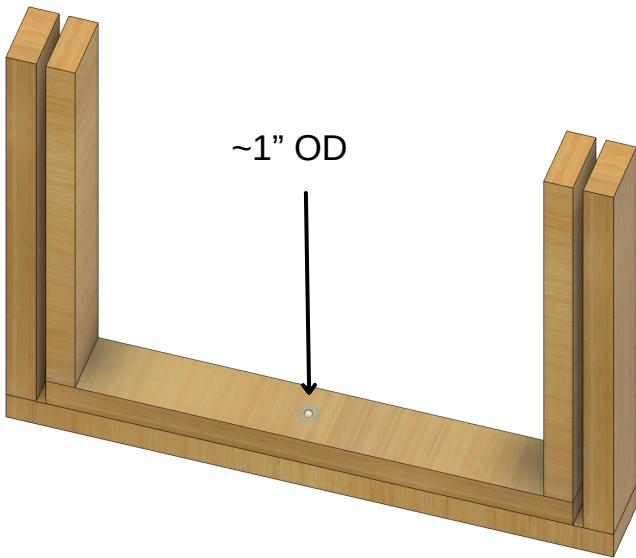
G1



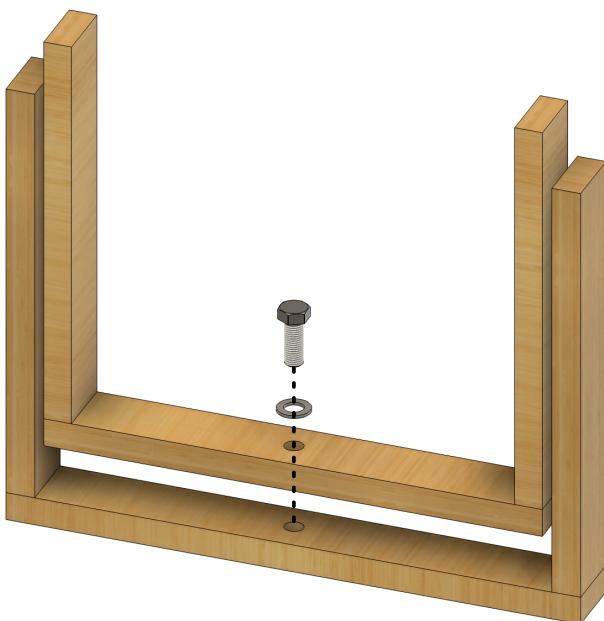
G2



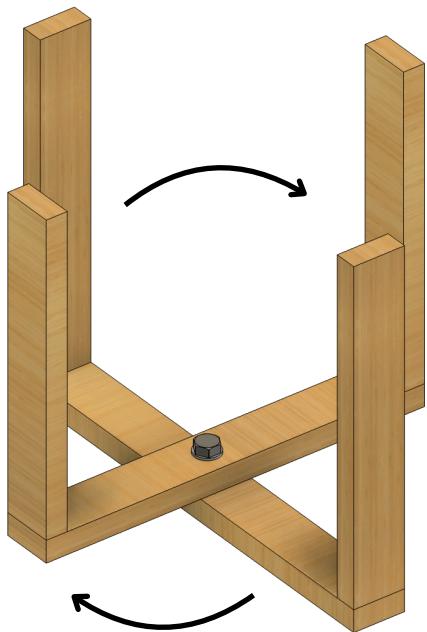
Hole for pivot point



Join stilts

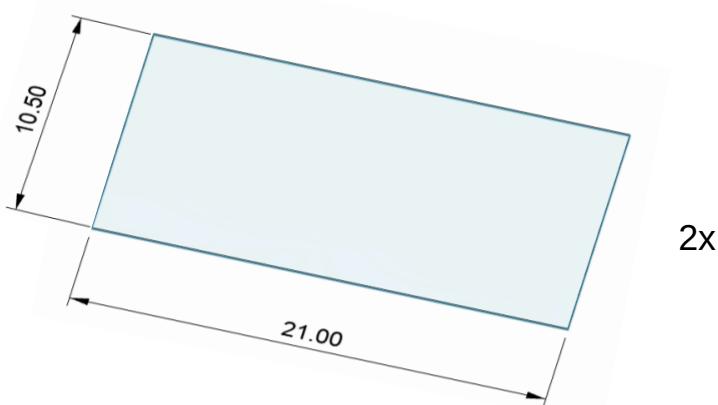
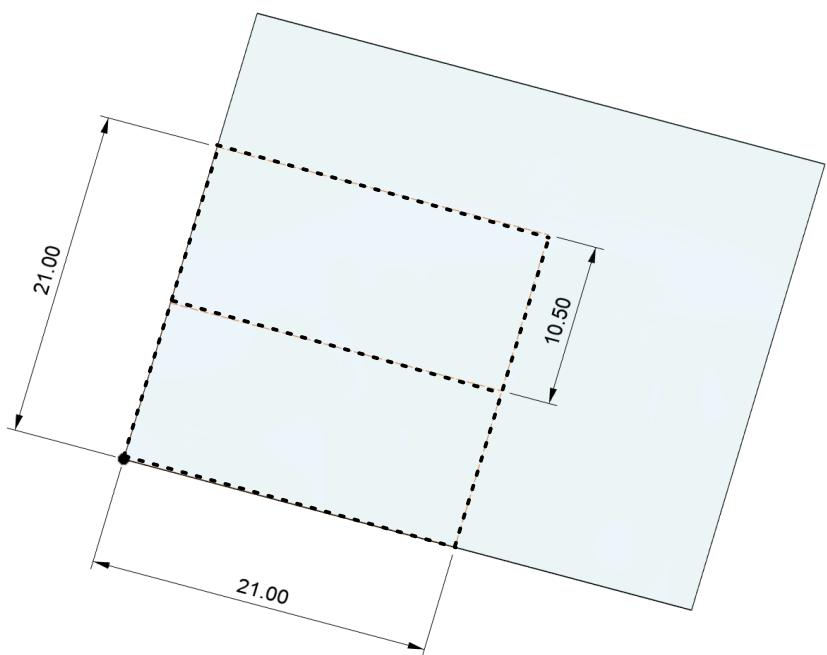


Folding stilts

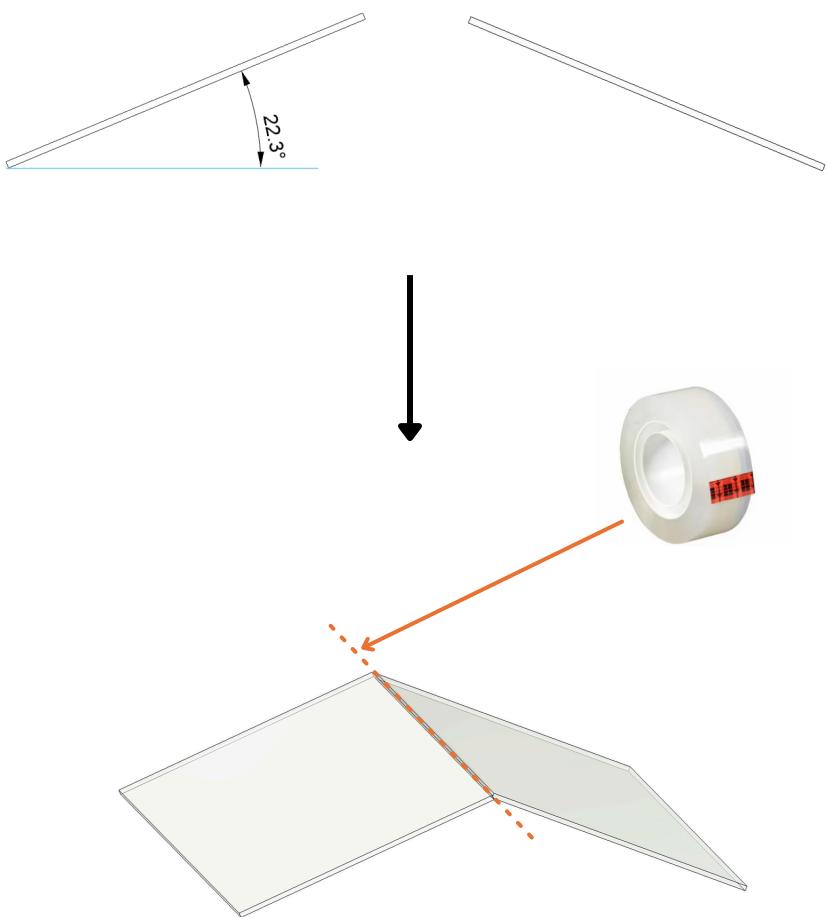


Glass cover

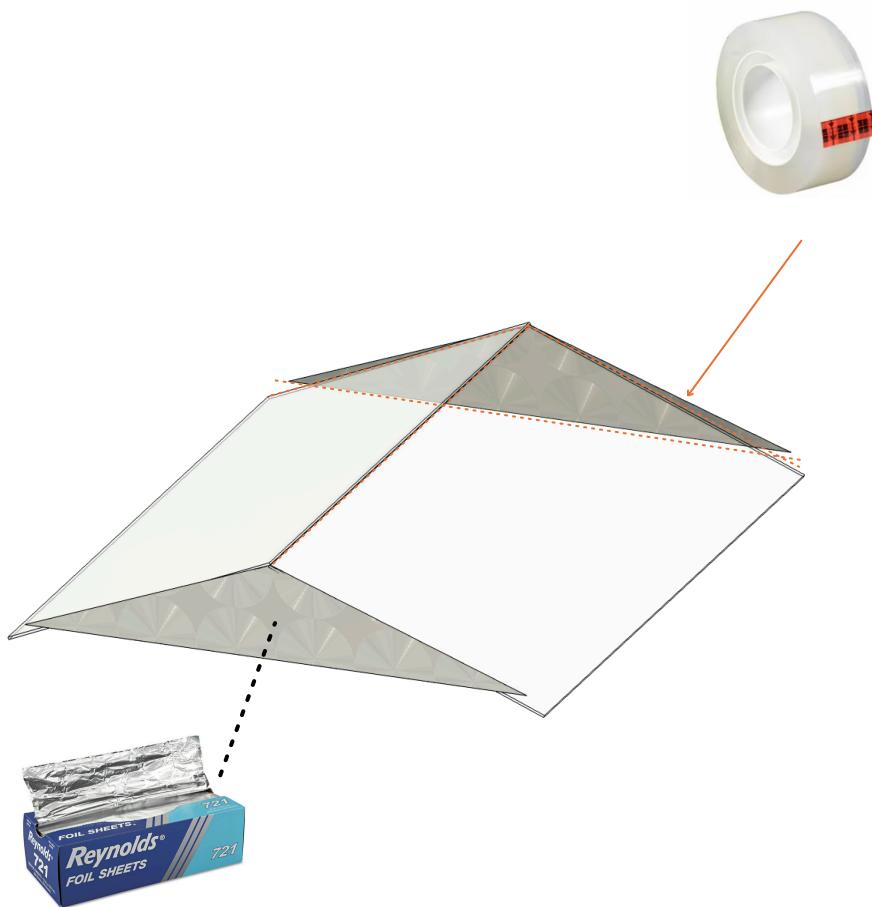
Glass cutting



Glass angle



Front and back cover

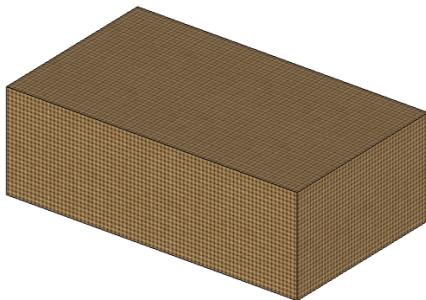
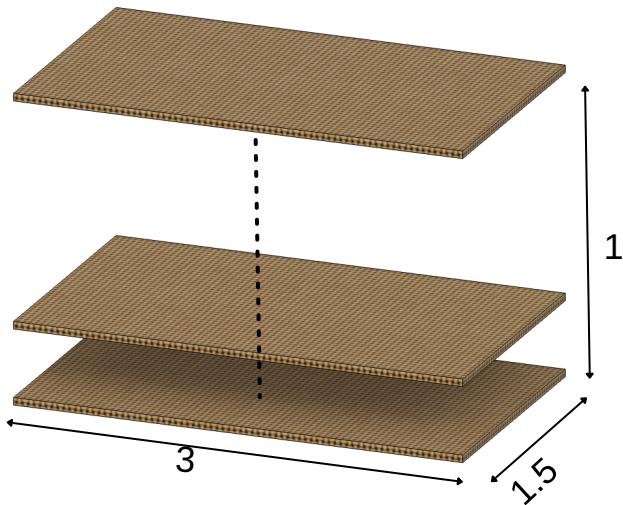


Mirrors

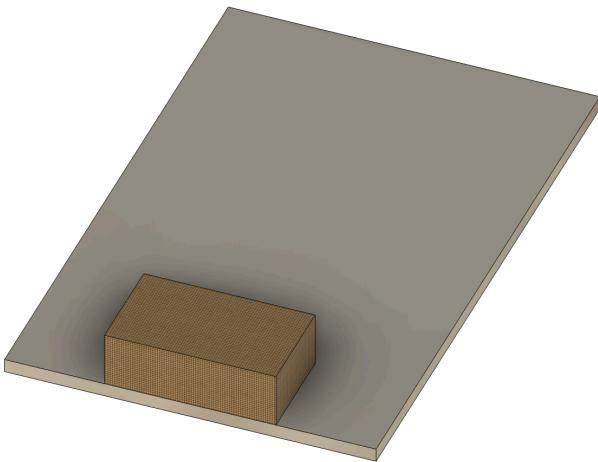
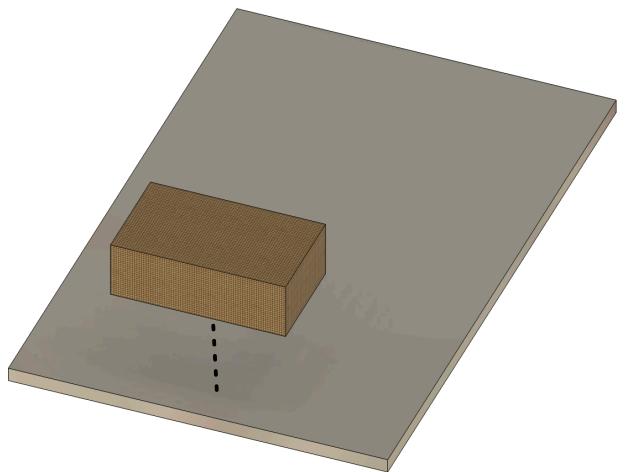
Mirrors



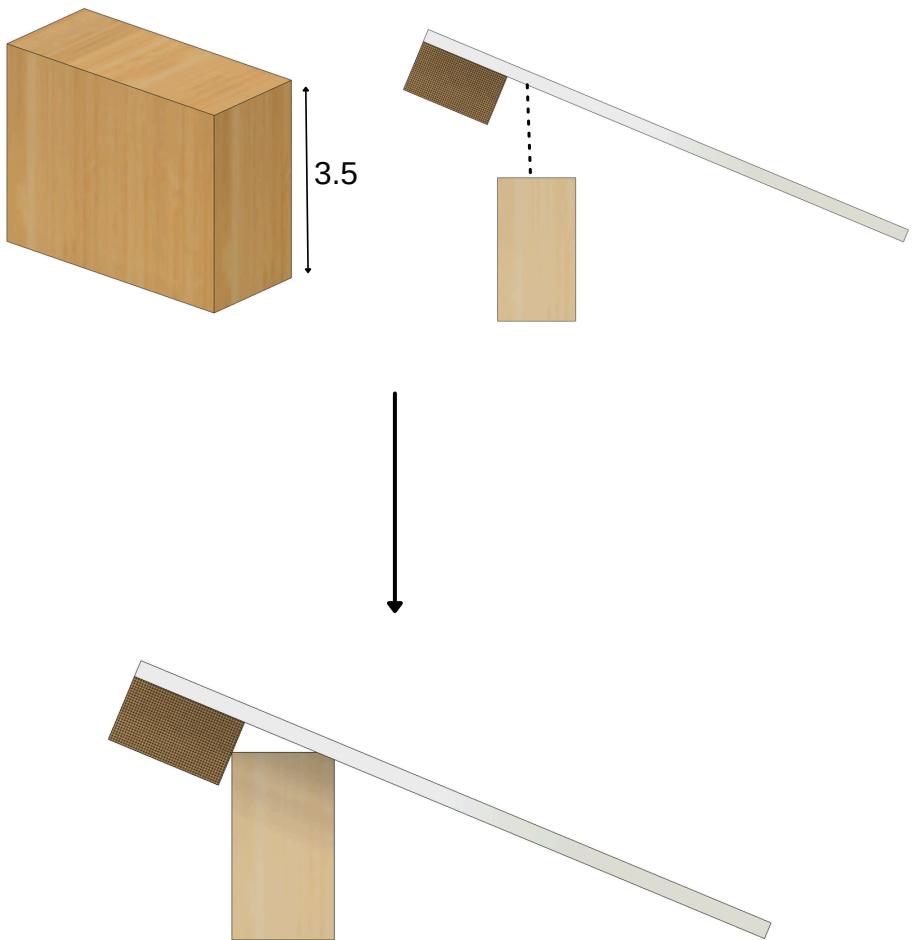
Mirror supports



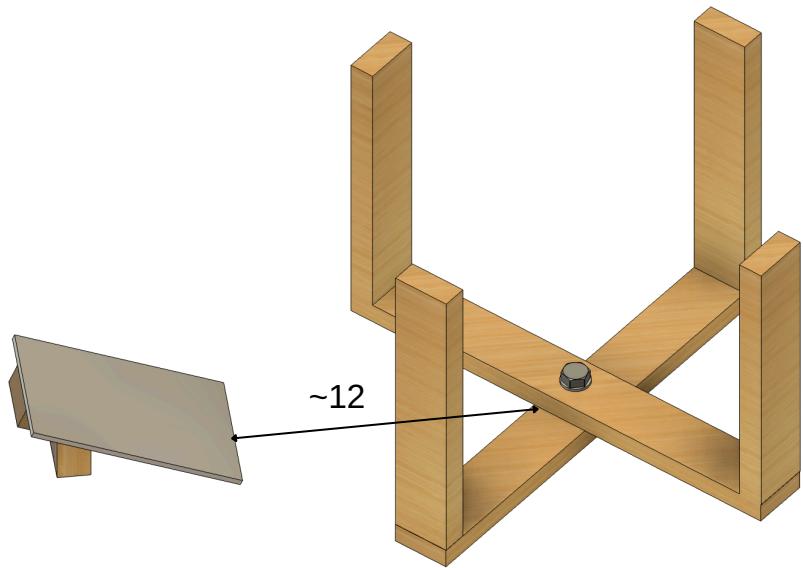
Mirror supports



Mirror supports



Distance of mirrors

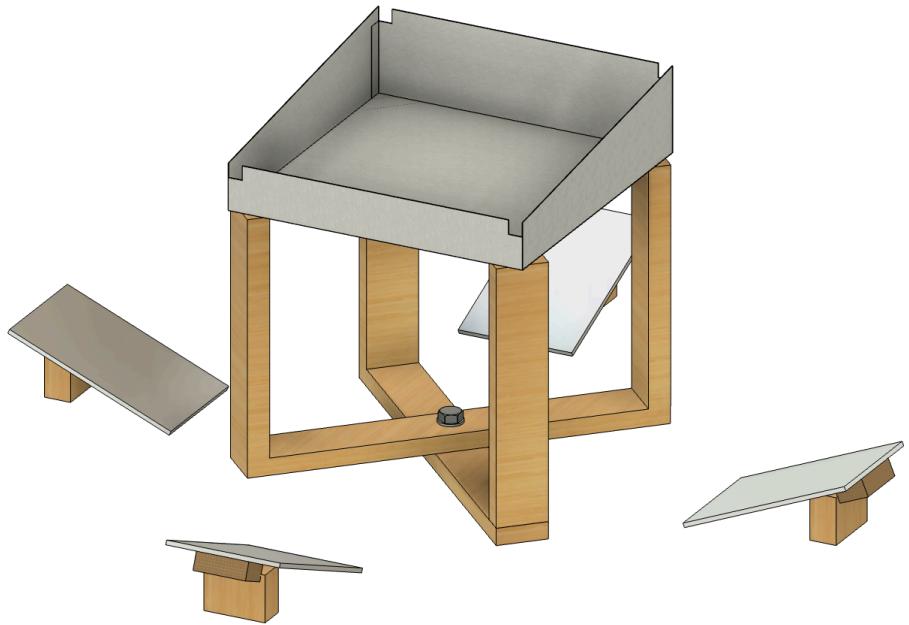


Full
assembly

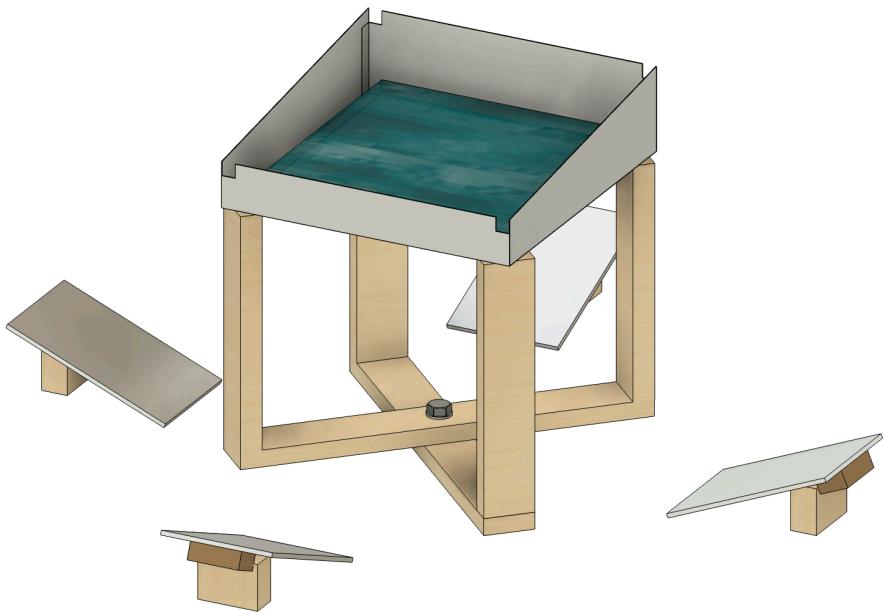
Setting up stilts and mirrors



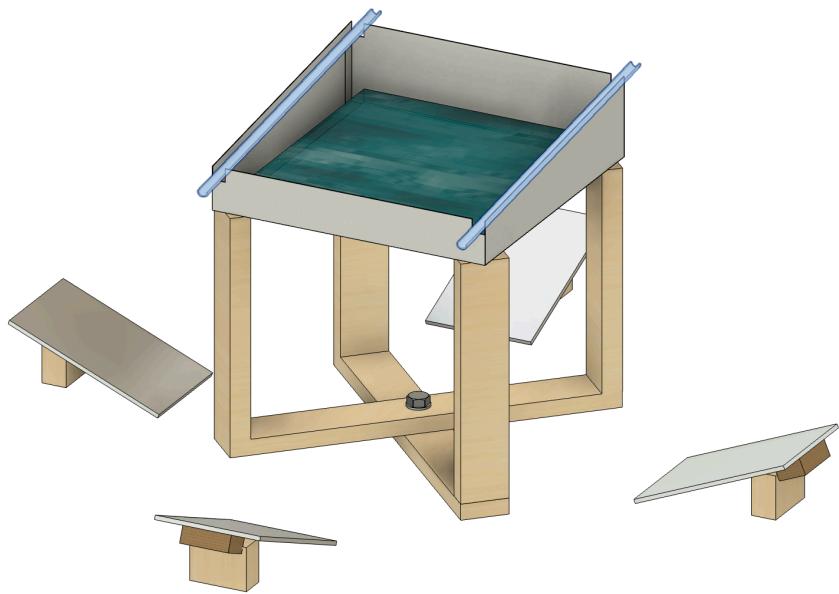
Placing basin on stilts



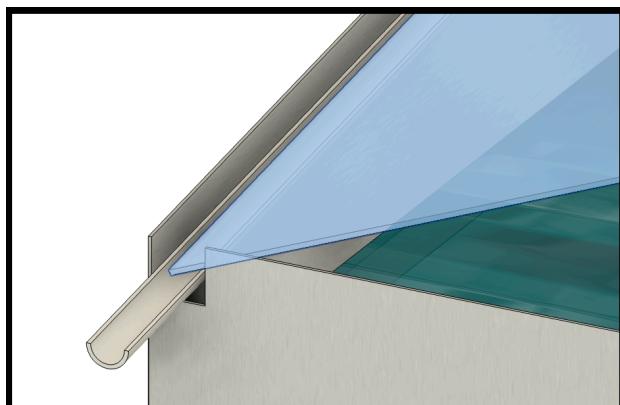
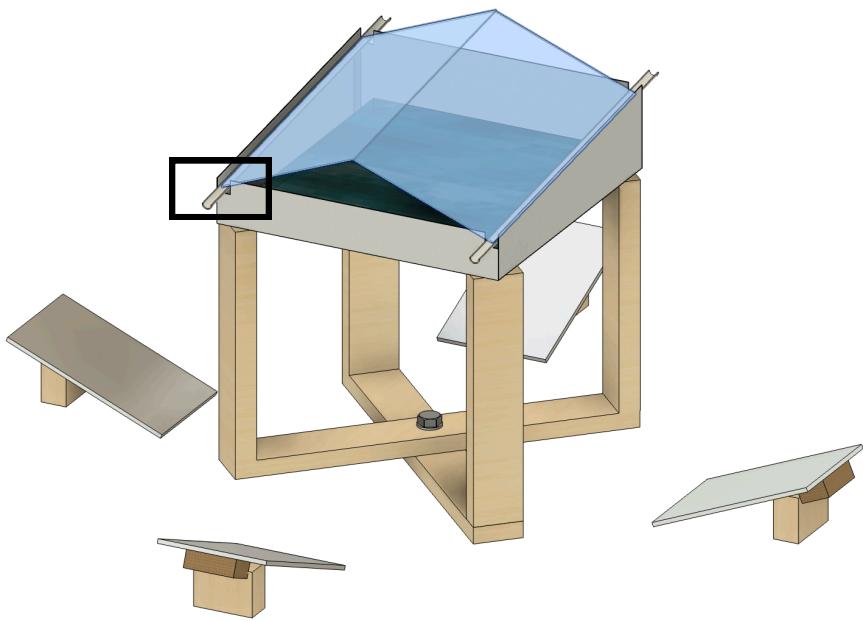
Fill basin with water



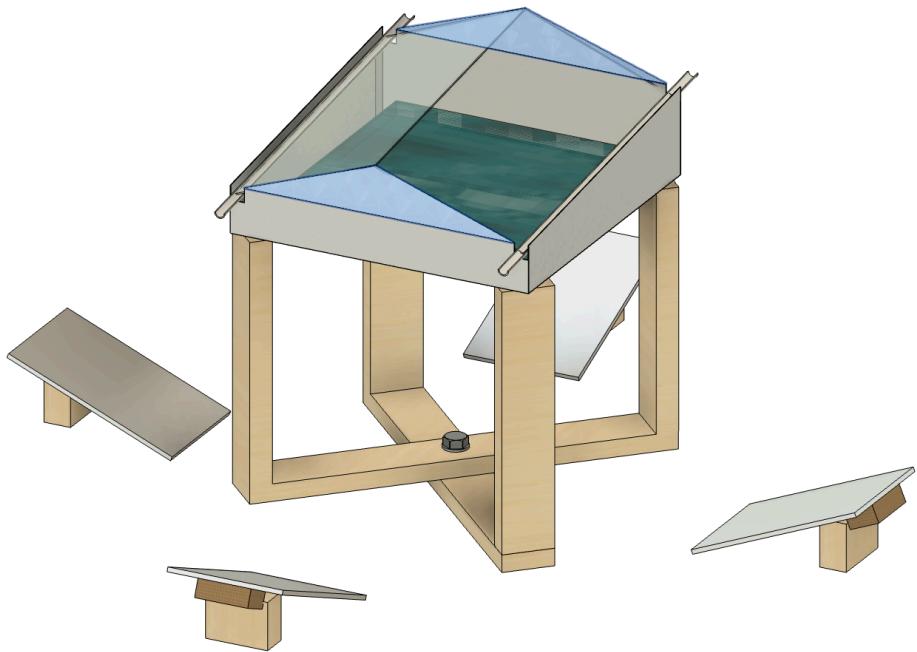
Placing gutters on basin



Placing glass on basin



Aluminum covers



Complete system



Maintenance

Maintenance

Material	Longevity
Wood	1 year
Elmers Wood Glue	2 years**
Aluminum	20 years
Soda lime glass	>30 years
PVC pipe	100 years

Clean with cloth after every use to remove residual salt

**Buying 1 tube of glue should be enough for touch-ups for the whole life span of 20 years