RHIZOTRON FOR LIGHT TRANSMISSION IMAGING

Last modification: 2012 - 08 - 16

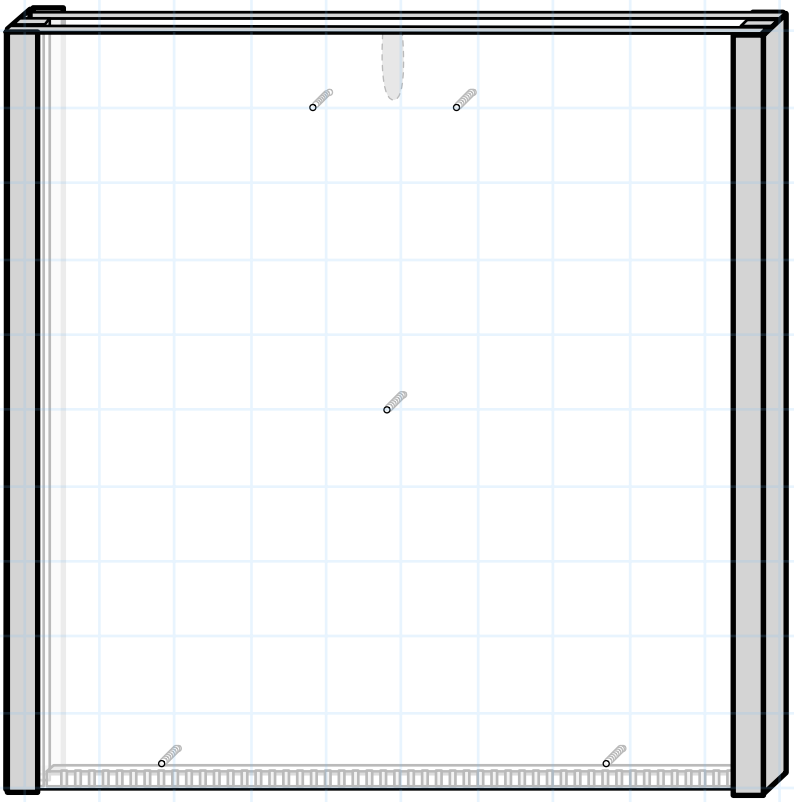
SIZE : 500 x 500 x 20 mm

WEIGHT : approx. 4 kg

Assembly time: approx. 5 minutes

COST: approx. 30 euros

Two transparent sides



Do not forget to cite us:

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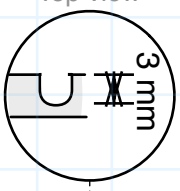
FRONT SIDE

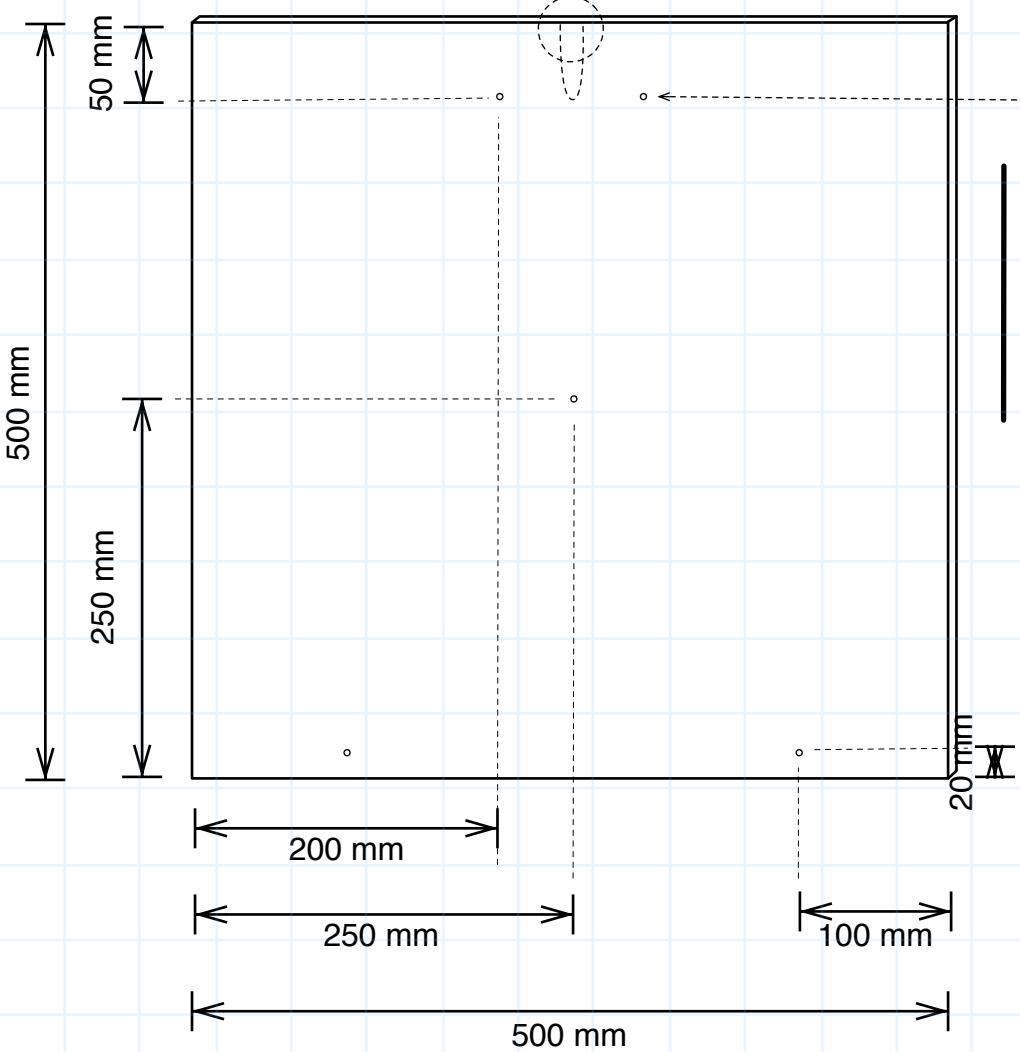
PMMA
Plexiglass XT
L = 500 mm
w = 500 mm
t = 6 mm

Top view



SEED SPACE

Additional space for the seed.
Not required for all plant species.
Performed using a router.



SCREW THREAD

∅ = 3 mm

Bore with M3 thread
Used for the
assembly of the
two rhizotron sides.

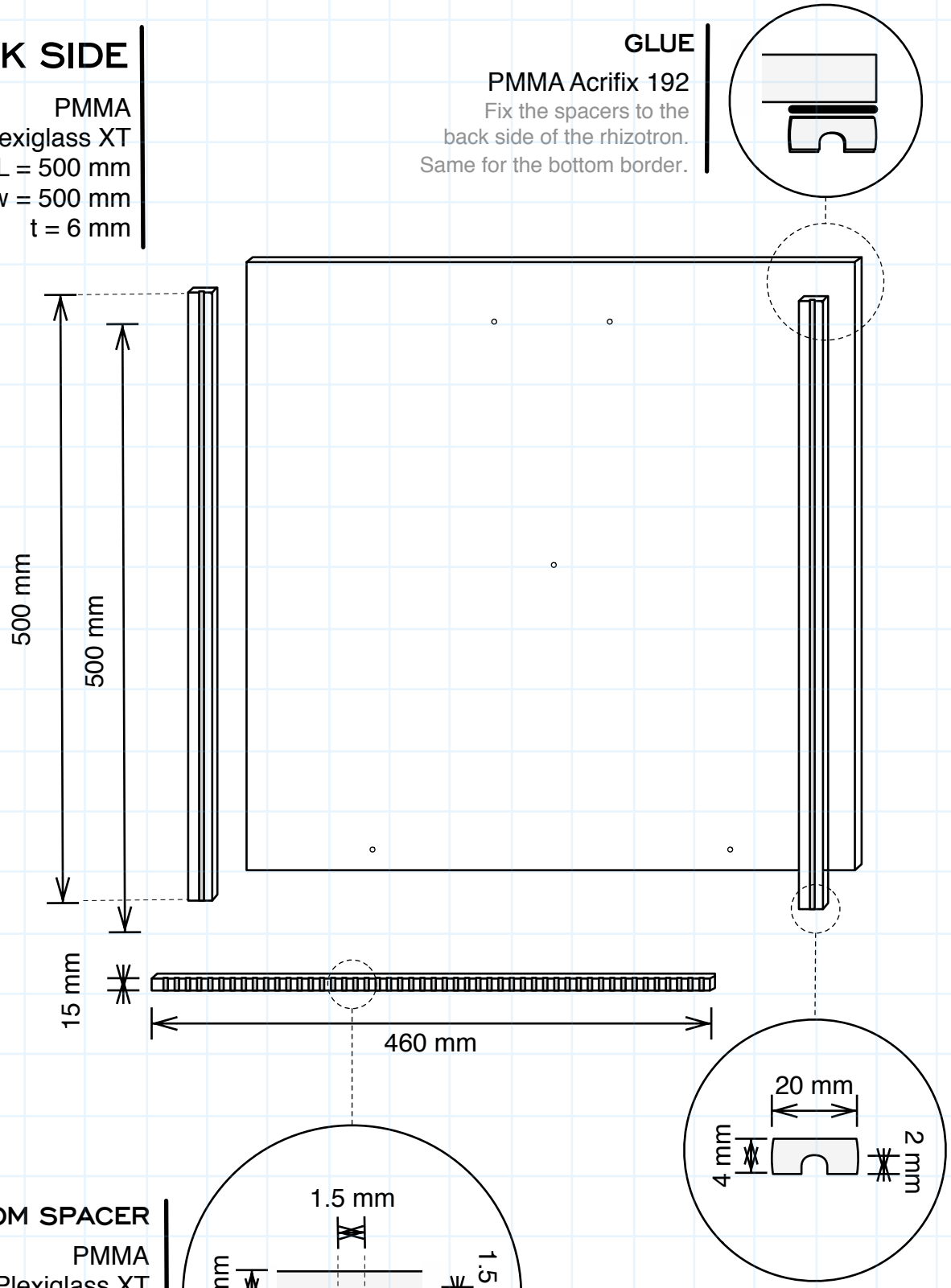
BACK SIDE

PMMA
Plexiglass XT
L = 500 mm
w = 500 mm
t = 6 mm

GLUE

PMMA Acrifix 192

Fix the spacers to the back side of the rhizotron. Same for the bottom border.



BOTTOM SPACER

PMMA
Plexiglass XT
L = 460 mm
w = 15 mm
t = 4 mm

The grooves serve to drain the excess of water in the rhizotron. Performed using a router.

SIDE SPACER

PMMA
Plexiglass XT
L = 500 mm
w = 20 mm
t = 4 mm

The groove serves to place the joint. Performed using a router.

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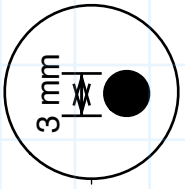
ASSEMBLY

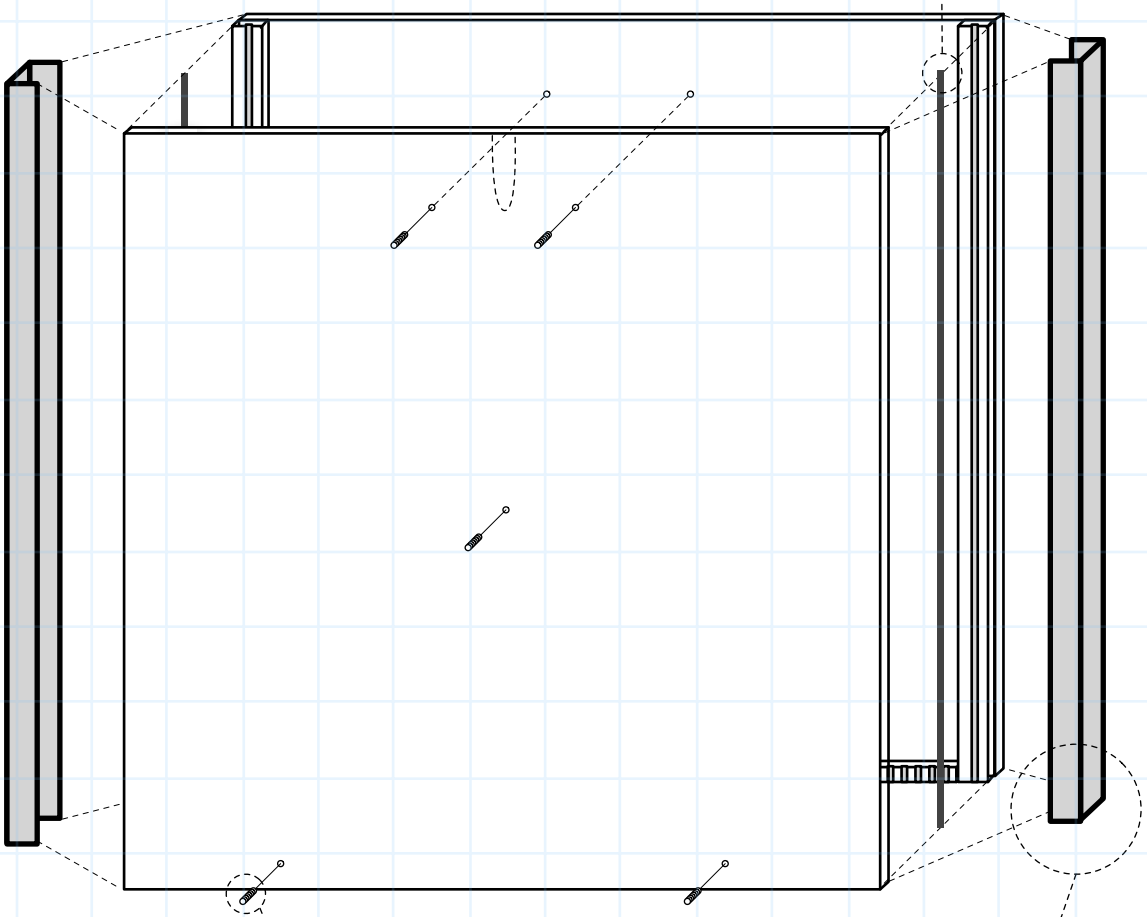
Approximate time:
5 min.

Glue the side borders
Glue the bottom border
Place the joints
Place the front side
Place the screws
Place the U-shaped profiles

JOINT

Rubber
Precision cord NBR
L = 500 mm
∅ = 3 mm

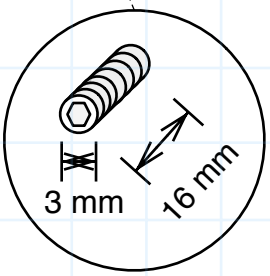




SCREW

Nylon
∅ 3 mm
L = 16 mm

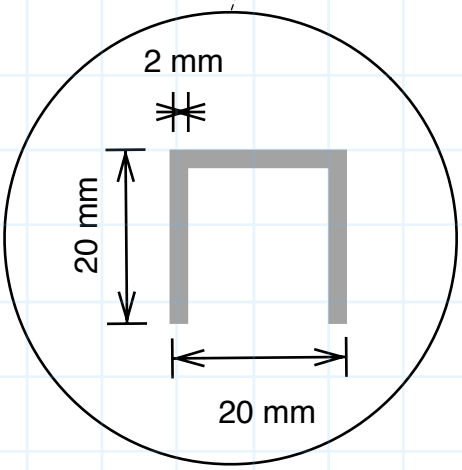
Serves as standoff between the rhizotron sides.



U-SHAPE PROFILE

Aluminium
L = 500 mm
w = 20 mm
d = 20 mm
t = 2 mm

Serves to fix the two sides of the rhizotron together. Works better if coated inside with petroleum jelly.



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