CHECKLIST COMPOSITES TOOLS & MATERIALS

* Aluminium foil (not needed when using the stainless steel table I donate to the FabLab!)
* Scale
* Resin: SUPER SAP® CLR SYSTEM epoxy and hardener
* Cups for mixing the components
* Sticks for stirring
* Scale
* Fiber: polyester circles
* Mould
* Cling film
* Spatula
* Breather material (loft batting)
* Piercer tool
* Gloves
* Apron
* Vacuum bag (to be tested before mixing the resin!)
* Vacuum cleaner
* Garbage bin
* Paper towels

WORK FLOW:

1. Prepare work area, have everything you need on the table, cover table with aluminium foil if not using the stainless steel table.
2. Cut all pieces needed:
   * 1. 1x breather material
     2. 2x cling film, 1 sheet to be pierced with the piercer tool.
     3. (fabric, for instance 3 layers of burlap, if not using pre-cut parts)
3. Pierce one sheet of cling film
4. Test vacuum bag
5. Put the unpierced sheet of cling film over the mould
6. Mix the resin in the right proportion\*
7. Pour the mixed resin on the fabric, even it out and push out the excess resin (goal is a composite consisting of 50% fiber - 50% resin .
8. Put one layer of fabric tramped in resin on top of the cling film on the mould.
9. Repeat procedure, positioning next layers in a 45 degrees angle over the previous one.
10. Place the pierced cellophane sheet on top of the last layer of fabric
11. Place the breather material on top of the pierced cling film
12. If needed use a second layer of pierced cling film
13. Put everything in a vacuum bag and suck the air out with a vacuum cleaner.
14. If needed: put everything in a second vacuum bag

\* The resin has to be mixed as described on the bottles:

* weight ratio 100g resin to 47g hardener
* volume ratio 2:1 resin to hardener