1. Do not put more than 50 grams on the scale
2. Do not place exposed pre-preg on the scale
3. As mentioned about 1000 times, cutter blade is sharp af baybeee
4. Glove up, fuckers

Assembling 0 deg ply:

1. Place the laminate on the transparent film
2. Align the laminate with the lines on the cutting mat
3. Draw 7 inches width since it’s (1 x 7 in^2)
4. Draw 8 inches length since we need 8 pieces
5. Make a full rectangle of steps 3 and 4
6. IMPORTANT: 1 inch = 2 squares on the cutting mat
7. Label the sections by 0 to indicate they are 0 degree laminate, just in case we mess up
8. Cut the 8 sections using the cutter blade
9. IMPORTANT: Check blade is tight before each use
10. Peel the film using the small blade on the edges
11. Align the fibers on top of each other. Peel the white film after each alignment to align the next one.
12. IMPORTANT: After some time, pre-preg becomes warm and very sticky (uwu), put in the freezer for 10 mins and the protective (white) film can be removed right away
13. IMPORTANT: You can remove all clear layers at once only for 0 and 90 degree laminates. For 45 deg, rolling will not possible if done.
14. IMPORTANT: DO NOT ROLL EXPOSED PRE-PREG MF
15. Write laminate direction on the white film after all are stacked
16. Use calipers to measure exact dimensions of the laminate after is rolled and the white protective film is removed. average at least 3 measurements
17. Using cutter blade to cut out any sticking out parts of the laminate to make it uniform

Assembling 90 deg ply:

Same as 0 deg, but 16 instead of 8

Weigh the sample with white protective film on, then remove it, weigh the protective film, then subtract that to find the actual weight of the laminate

Assembling 45 deg ply:

1. Draw an angled box 7 x 8 and label it – 45
2. Draw another angled box (MAKE SURE THE FIBERS ARE GOING DIFFERENT DIRECTIONS) and label it +45.
3. Stack them according to laminate structure

Cutting the auxiliary plies

Check lab manual 4head

Assembling in mold:

Make sure to check the 90 deg ply comment for weighing the laminate

1. Lay the laminate in between two peeler plies
2. use the roller to make it as flat as possible
3. Spray the inner mold and the caul plate with WD-40
4. Put the release film on top of the mold
5. Put two bleed cloth on top of the release film
6. Put the pre-preg inside the two peeler plies on top of the two bleed cloths
7. Another two layers of bleed cloth
8. Put a peeler ply on top
9. Put the release film on top
10. Put the weird block on top, stick it in the mold
11. Use the hammer in the middle to force it in there
12. IMPORTANT: MAKE SURE THE TOP CAUL PLATE IS FLAT