



How to Make Your Own Mini CLT Panel

Goal: Build a small Cross-Laminated Timber (CLT) panel to see how layering wood makes it stronger.

Steps:

1. Prepare your first layer

- Take **5 wood sticks** and line them up side by side.
- Make sure they touch each other and form a flat layer.

2. Add glue

- Spread glue evenly across the top surface of the first layer.
- Don't use too much—just enough to cover the sticks.

3. Make the second layer

- Place another 5 sticks **perpendicular (90°)** to the first layer.
- This cross pattern is what gives CLT its strength.

4. Repeat the process

- Add more glue and continue with new layers (3–4 layers total).
- Remember: each layer should be **crossed** compared to the one below.

5. Press the layers

- Place your hand vices (clamps) on the panel to hold everything tightly together.
- Make sure it is pressed firmly and flat.

6. Let it dry

- Leave the panel under pressure until the glue sets.
- Drying time depends on the glue—ask your instructor for guidance.

7. Test the strength

- Once dry, carefully remove the clamps.
- Compare your CLT panel to a single wood stick.

Remember:

- Work carefully and as a team.
- Always keep your fingers safe when using vices.