

TB2025 – logistics aspects

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Available material

▷ Gluing JIGS

- In production



▷ CF – (new batches produced in 2024)

- 10+10 with moderated quality on the size of the positioning holes (see previous meetings).
- It seems good enough to cope with current design tolerances (100um of separation between two CSIS in the T-Frame)

▷ Kaptons (w/ and w/o connectors): missing

▷ Glue batches

- 2oz H20E. With current procedure, we can glue 12 CSIS with these batches. (conservative estimation).
- The bottleneck so far is not the amount of glue but the lifetime of the pot.
- We will optimize the profiting of the glue while we get experience.
- New batches will be purchased in the coming months (not an issue)

▷ Other glues (for HV, for kapton-CF), etc, already at our disposal.

- We plan to make a couple of gluing using alternatives to the H20E, for comparisons.



▷ Sensors

- We have 20 sensors of Hamamatsu (320um) available for gluing... but not tested!
- We have 7 Hammamatsu (500um) sensors + 1 at TAU (for testing, can you bring it to DESY?)

▷ Probe station

- The idea is to use with a “fake-PCB” connected to the CSIS such that we can check the connection of every pad (“fake-PCB” is to being designed by Yan).
- Mechanics, Farady cage, labview, sourcemente, LCR, etc → ready (or at 95%)
- But the card is not working, we were lacking of documentation until this year.
- We are in the process of debugging → we have a problem in the power delivery and we just got replacement components.
- Why so slow? I am not going to IFIC regularly since mid-December, the debugging is very slow!
- Alternatives: 1) send the CSIS back to TAU before travelling to Poland/DESY? 2) get one debugged switch-card from TAU for few months while we debug ours.comparisons.

Timeline

- ▷ Jig production – January (+ february for testing & correction)
- ▷ Test glue (fake sensors, etc) February, beginning March
- ▷ Real gluing – End of March and April
 - Finalize testing in May.

- ▷ February – start simulation studies with TB2025 design and the luxe-sim (dd4hep, etc)
 - Melissa

