

CLIC structure collaboration
WebEx meeting
CERN production

G. Riddone

20090828

Undamped ac. structures (11.4 GHz)

- T24#1 – under tests
 - Tank configuration
 - Assembly procedure agreed at the task force in march 09 (see presentation on T24 fabrication):
 - cleaning with light etching*
 - pre-fire at 1040 C in Ar,*
 - vacuum brazing AgCuPa at ~ 800 °C*
 - baking at 650 °C for ~1/2 day*

Following structures – pure H₂ bonding at 1040 °C (validated with 3 samples)

Disks for 3 structures at CERN

- **T24#2**
 - Sealed configuration
- **T18 KEK/SLAC #1 and #2**
 - Sealed configuration

To be clarified with SLAC

1. Cleaning procedure
2. Configuration for baking

Damped ac. structures (11.4 GHz)

- TD18#1 – under tests
 - Tank configuration
 - Same assembly procedure as T18
cleaning with solvent only
vacuum brazing AgCuPa at ~ 800 °C
- **TD24#2**
 - Tank configuration
 - Already bonded (pure H2 bonding at 1040 °C)

PETS (11.4 GHz) with damping material

- bars at CERN
- Damping material to be ordered (SiC) and machined
- Couplers and mini-tanks ready at CERN
- Assembly - complete by end of 2009

High power Loads

- 4 loads (2 for KEK and 2 for SLAC)
 - CINEL x 1 – sent to KEK
 - Heeze x 3 – under preparation
ready by end of Sep 2009