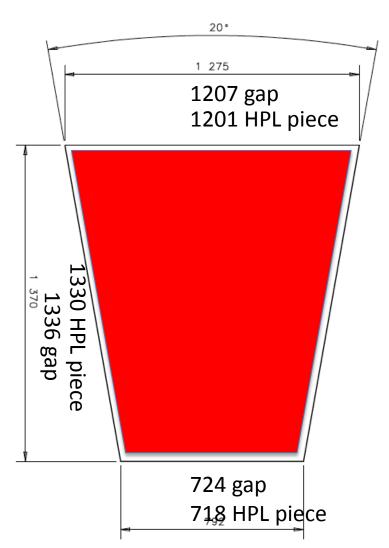
Chamber structure proposal

- Use the SAME gap size for Top & Bottom
- Simplify the strip exit on both sides for 2 partitions (to be confirmed by physics requirements)
- Strip plate compatible with PCB option
- Amount of strips compatible with 1 LB/chamber= 96 ch
- FEBs compatible with RE options
- Position of FEBs driven by cable length optimisation
- FEB Cooling and Chamber Thermalisation in pipeline with present RE3 and RE4 services
- Same concept for trapezoidal or rectangular prototypes

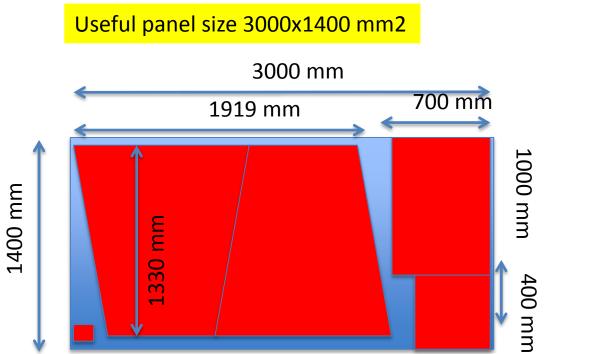
Trapezoid: Gap size -> HPL piece size

- Assuming gap size 3 mm smaller on each side
- AGAIN: Watch this is BOTTOM gap only



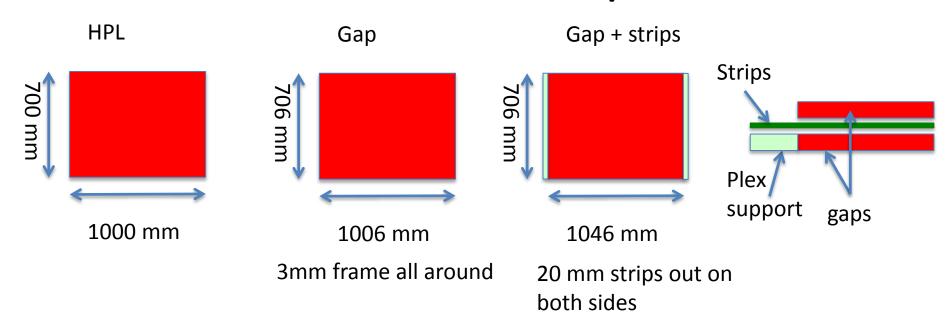
Trapezoid: Panel cut

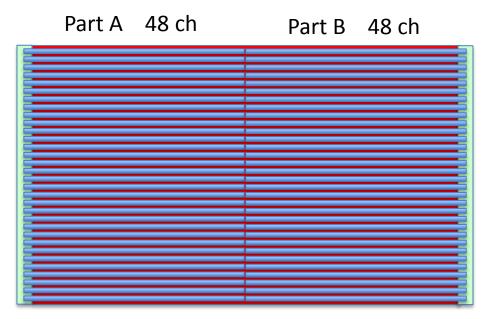
- 2 trapezoid pieces + 1 rectangular big + 1 rectangular small + 1 small piece for glue tests : 1 panel = 3 gaps
- In rectangular pieces ALL 4 Corners cut as usual 4cm diagonal



```
For KODEL:
3 panels 1,6 mm:
         resistivity
    #
    13
         2,4
    14
         2,7
    15
         2,7
3 panels 2,0 mm
    #
         resistivity
    48
         4,3
    49
         4,1
    50
         4,0
```

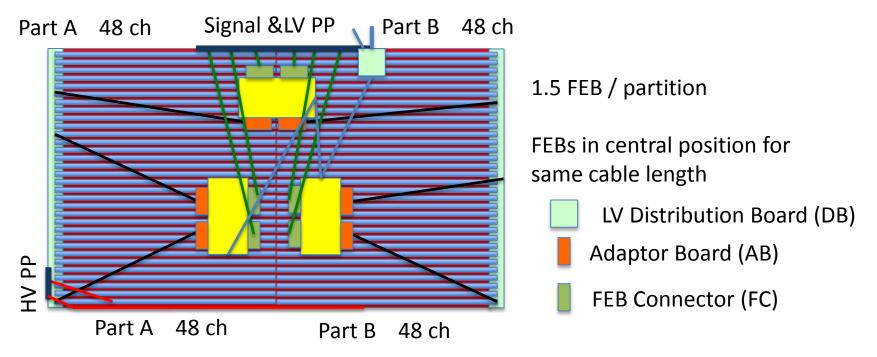
Chamber Strips





In case of PCB for strips, we could also position connectors and FEBs directly on PCB

Chamber: FEB position & cabling



For 3 chambers we will need:

4 LV DB (3+1 spare)

10 FEBs (9+1)

20 AB (18+2)

20 signal cables 18+2)

40 signal connectors (36+4)

15 LVDB connectors (12+3)

LVDB flat cables 5m (4+1)

Chamber: Cooling

