# GIF test of BIS RPC gaps

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# Test Goal: aging

What we will test?

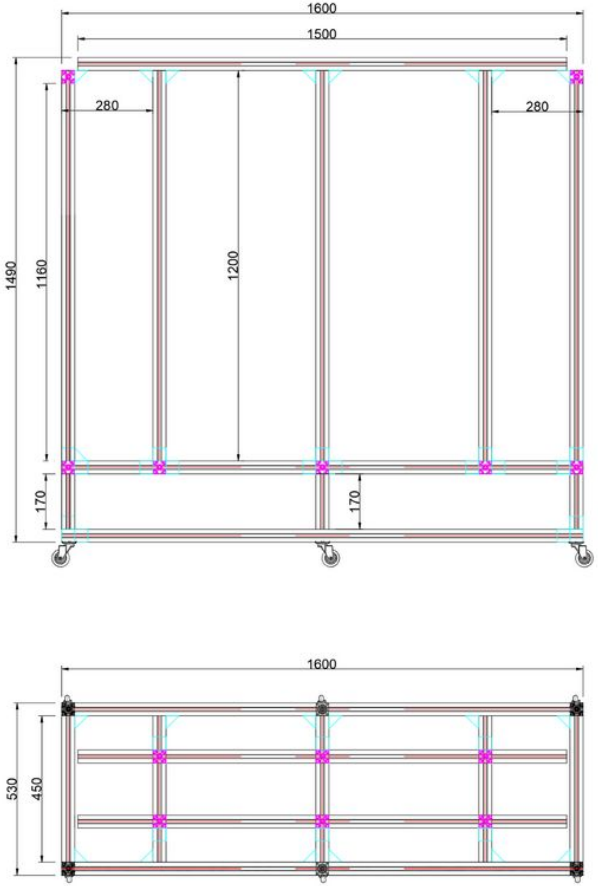
- We have 8 gaps shipped to BB5 from USTC, packaged in an aluminum structure. Among the 8 gaps, 2 of them are fully glued and 6 are half-glued.
- We will test 6 of the gaps at most (mainly limited by the gas flux at GIF++). We propose to test the 2 fully glued gaps first and plus some half-glued ones.

Gas gaps characteristics:

- The size of each gap is 1300mm long, 680mm wide, and 1 mm thick.
- Each gap needs about 0.88L/h of Gas.
- Gas mixture to be tested with:  Standard mixture

# Trolley information

- Trolley size:
  - 1.6m long * 0.530m thick * 1.49m high
- Where to be placed:
  - Downstream, close to the wall
  - Either in front of the MPI ageing setup or the right side of MOD0
- For how much time:
  - 6 months
- Starting from:
  - Around March 2025



# Electronics + Cabling

- We don't need to install any electronics inside or outside except the HV distributor which will be attached to the trolley
- We will need just to route the cables to the electronic cage.

- Cables, pipes needed:
  - For HV: from trolley to the electronic cage
    - Need to install and root
  - For LV: from trolley to the electronic cage:
    - We need to install a flat cable for the gap current read out.
  - For Gas: from trolley to gas rack
    - Installed (Sinem ) the gas pipe which is needed to feed the gaps, so it is ready.

# Backup

# Ongoing purchase:

- Preparing of HV distributor of 6 channels. The material (cables, connectors, etc.) is under purchase.
- The gas distributor and impedance, are to be ordered following the guidance of Giulio.
- The support structure (trolley)
- Bobine of gas pipes, blue 6mm ones which we are using in Atlas.