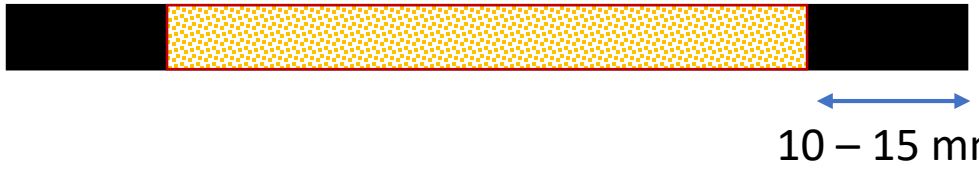
Mechanical components of basic µRWELL detector

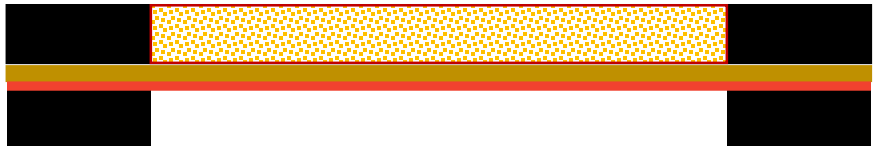
Cathode honeycomb support



Cathode foil

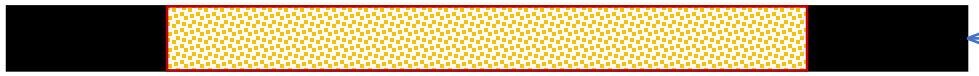
Drift gap frame foil

Cathode block: all pieces glued together



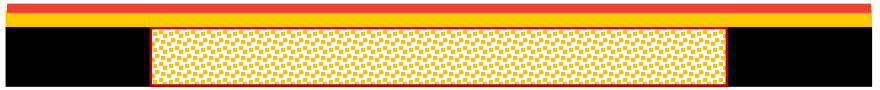
µRWELL – R/O combo foil

µRWELL honeycomb support



Frame material options

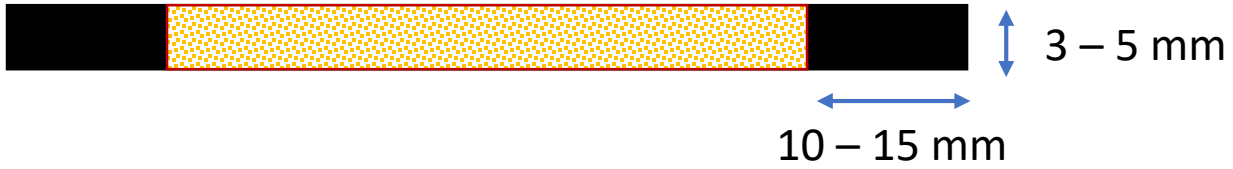
- G10
- PEEK
- CF



µRWELL-RO block: all pieces glued together

Mechanical components of hybrid GEM-µRWELL detector

Cathode honeycomb support



Cathode foil

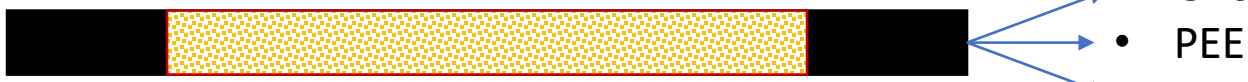
drift gap frame

GEM foil

Induction gap frame

µRWELL – R/O combo foil

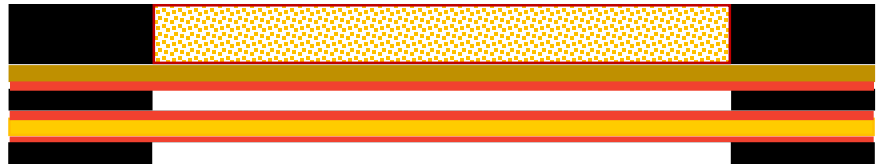
µRWELL honeycomb support



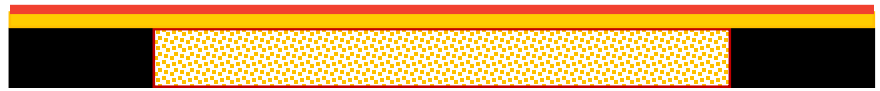
Frame material options

- G10
- PEEK
- CF

Cathode-GEM block: all pieces glued together

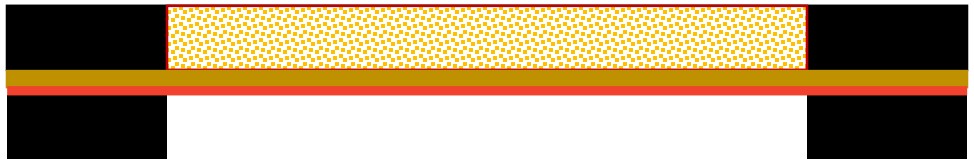


µRWELL-RO block: all pieces glued together

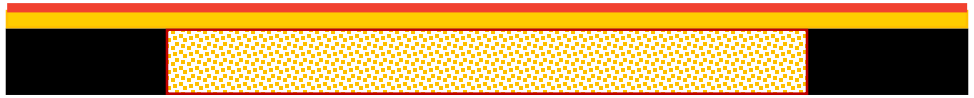


Standard (3 mm) gap µRWELL (single amplification)

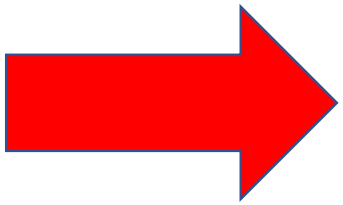
Cathode block

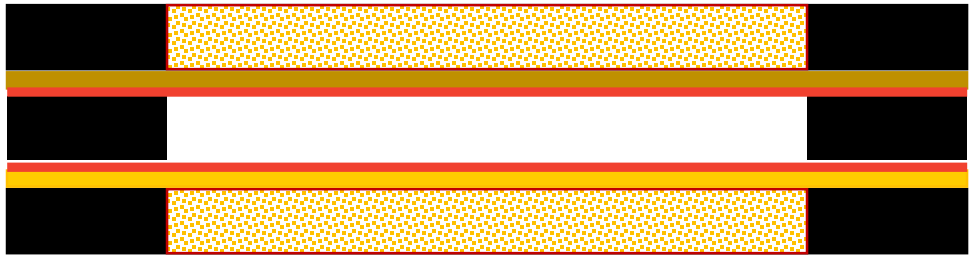


3mm



µRWELL-RO block

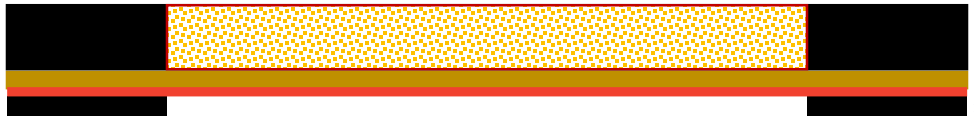




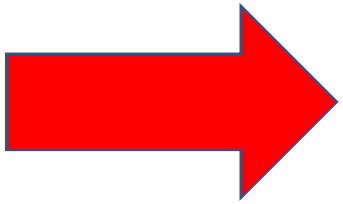
Standard gap µRWELL detector

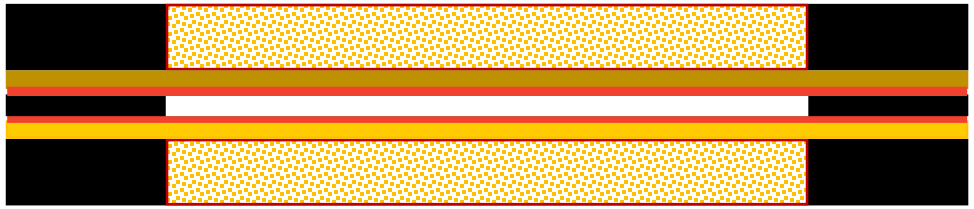
Thin-gap (1 mm) µRWELL (single amplification)

Cathode block

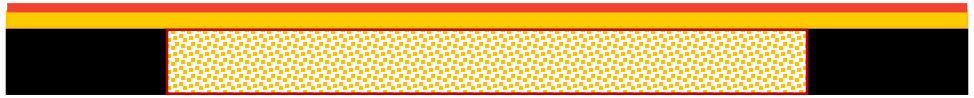


1 mm





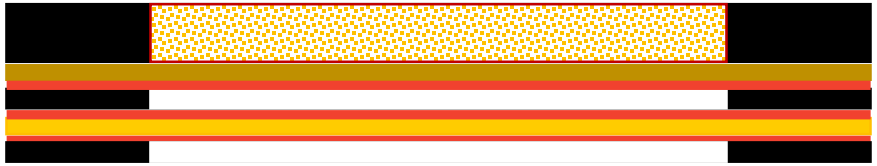
1-mm Thin gap µRWELL detector

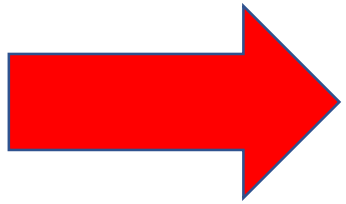


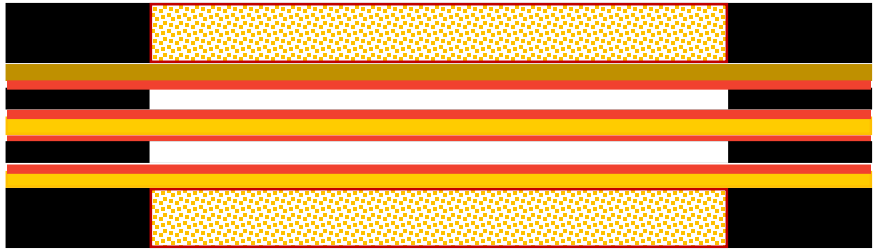
µRWELL-RO block

Mechanical components of hybrid GEM-µRWELL detector

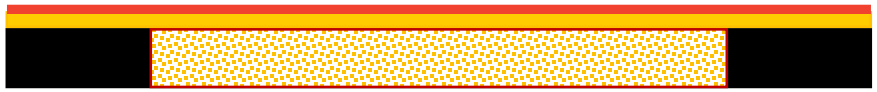
Cathode-GEM block: pieces glued together







Hybrid thin-gap GEM- µRWELL detector

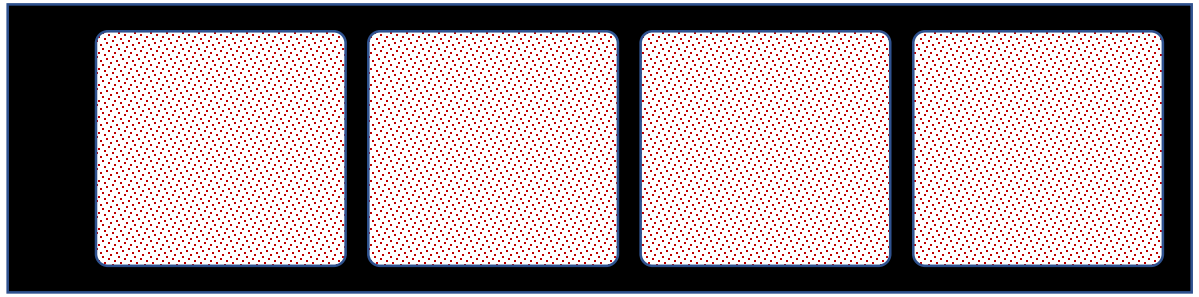


µRWELL-RO block: all pieces glued together

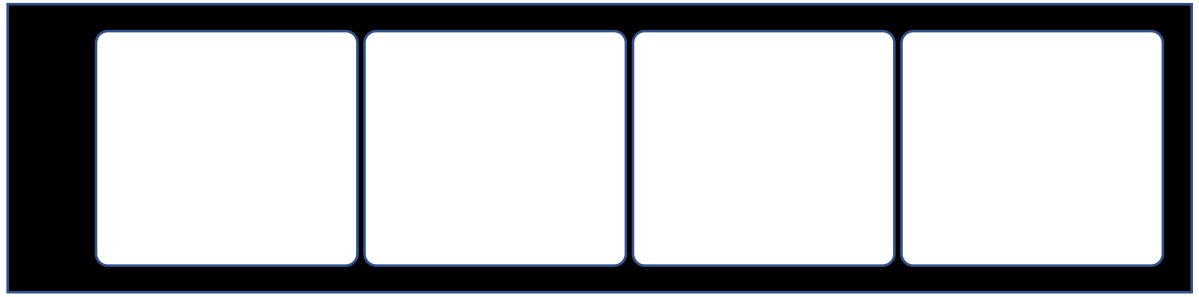
Backup

Different frames – G10 or PEEK or Carbon Fiber

Cathode: 3 - 5 mm Honeycomb frame

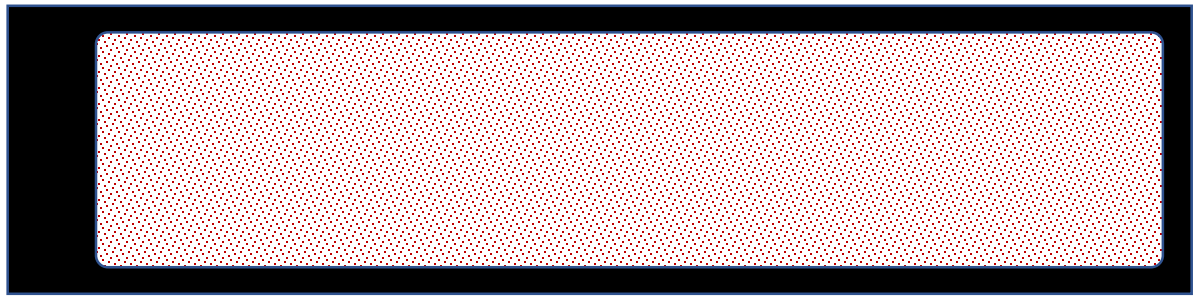


Hybrid thin gap: 1 mm GEM frame



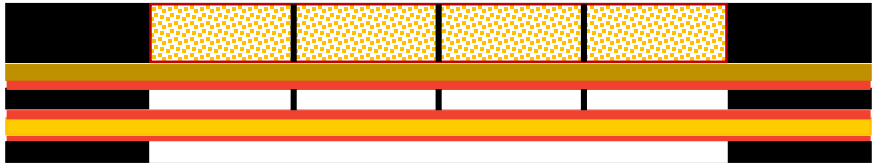
Hybrid thin gap: 2 mm induction frame
Thin gap: 1 mm drift frame
Standard µRWELL: 3 mm drift frame

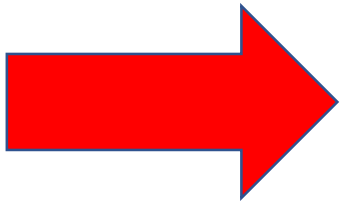
µRWELL-RO: 3 - 5 mm Honeycomb frame

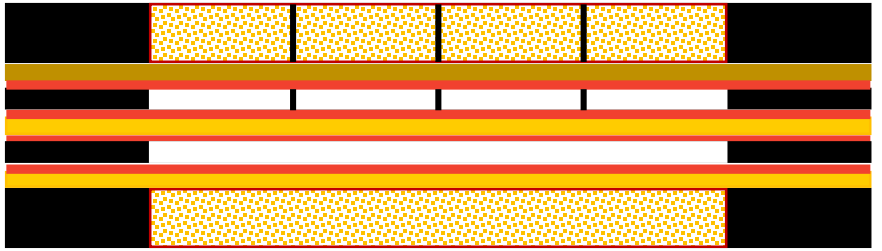


Mechanical components of hybrid GEM-µRWELL detector

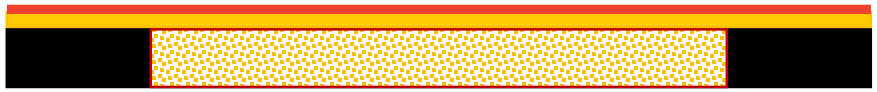
Cathode-GEM block: pieces glued together







Hybrid thin-gap GEM- µRWELL detector



µRWELL-RO block: all pieces glued together