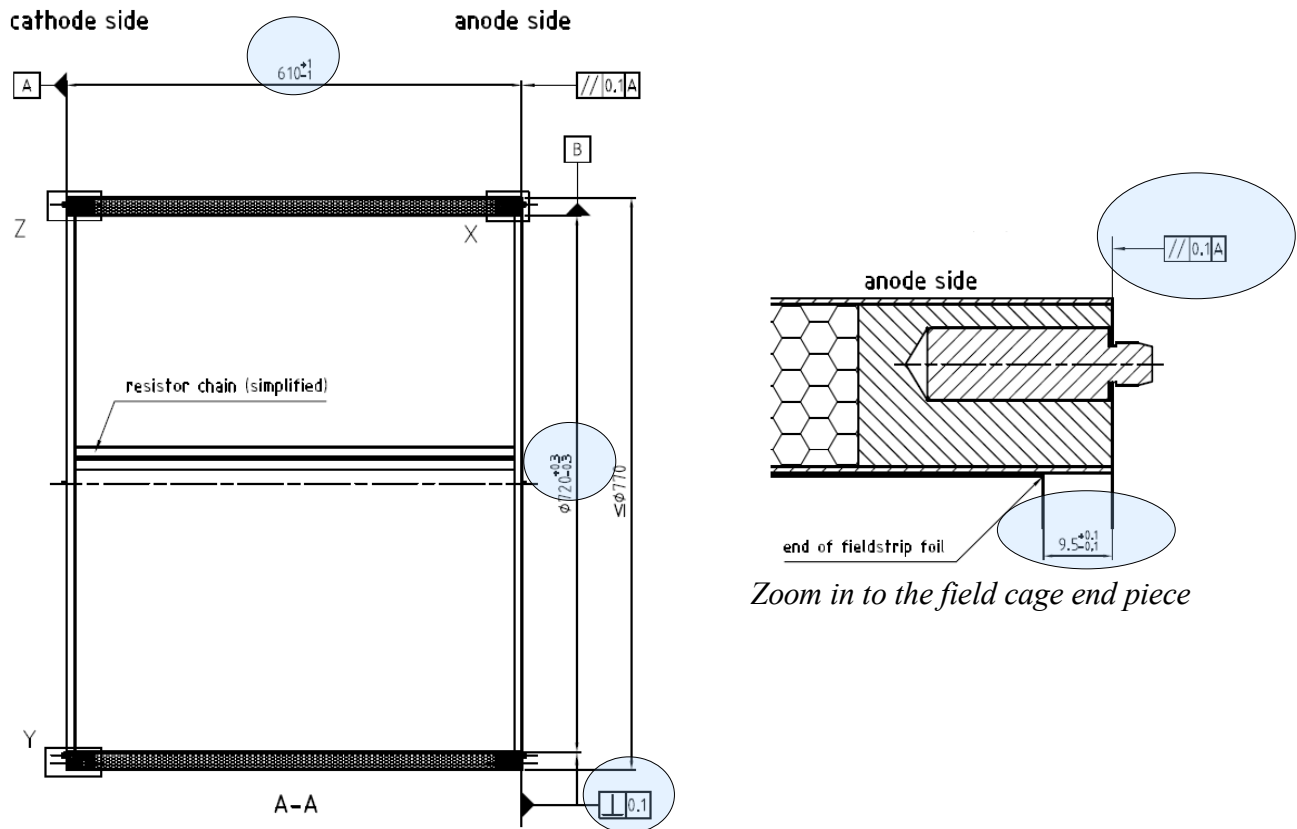


(1) inspect FC and EP, verify tolerances (with protocol from HAINDL); if necessary, verify tolerances with measurement (survey)

- specifications:
 - (a) length = 610 ± 1 mm
 - (b) diameter (inner) = 720.0 ± 0.3 mm
 - (c) parallelism ≤ 0.1 mm
 - (d) squareness ≤ 0.1 mm
 - (e) holes positions/diameters/roundness according to technical drawings



Field cage dimensions

- (2) field strips:
 - measure the distance of the field strips w.r.t. EP (9.5 ± 0.1 mm)
 - measure tilt of strips
- (3) solder the remaining (two) resistors
- (4) cleaning of the field strip-foil with alcohol (Isopropanol or the like)
- (5) prepare connections to field strips from outside
 - cathode and field strip
 - anode
- (6) prepare gas inlet
- (7) prepare o-ring

Commission the FC:

1.gas:

- leak test:
 - pressurized
 - sniffer
 - O₂, H₂O measurements with 6/10 mbar
- pressure test, $p \leq 30$ mbar, deformation measurement

2.HV:

with N₂:

- training, i.e. gradually, slowly increase potential up to a few kV
- increase up to 25 kV
- long term test

with Ar:

- repeat procedures as with N₂
- measure leakage currents