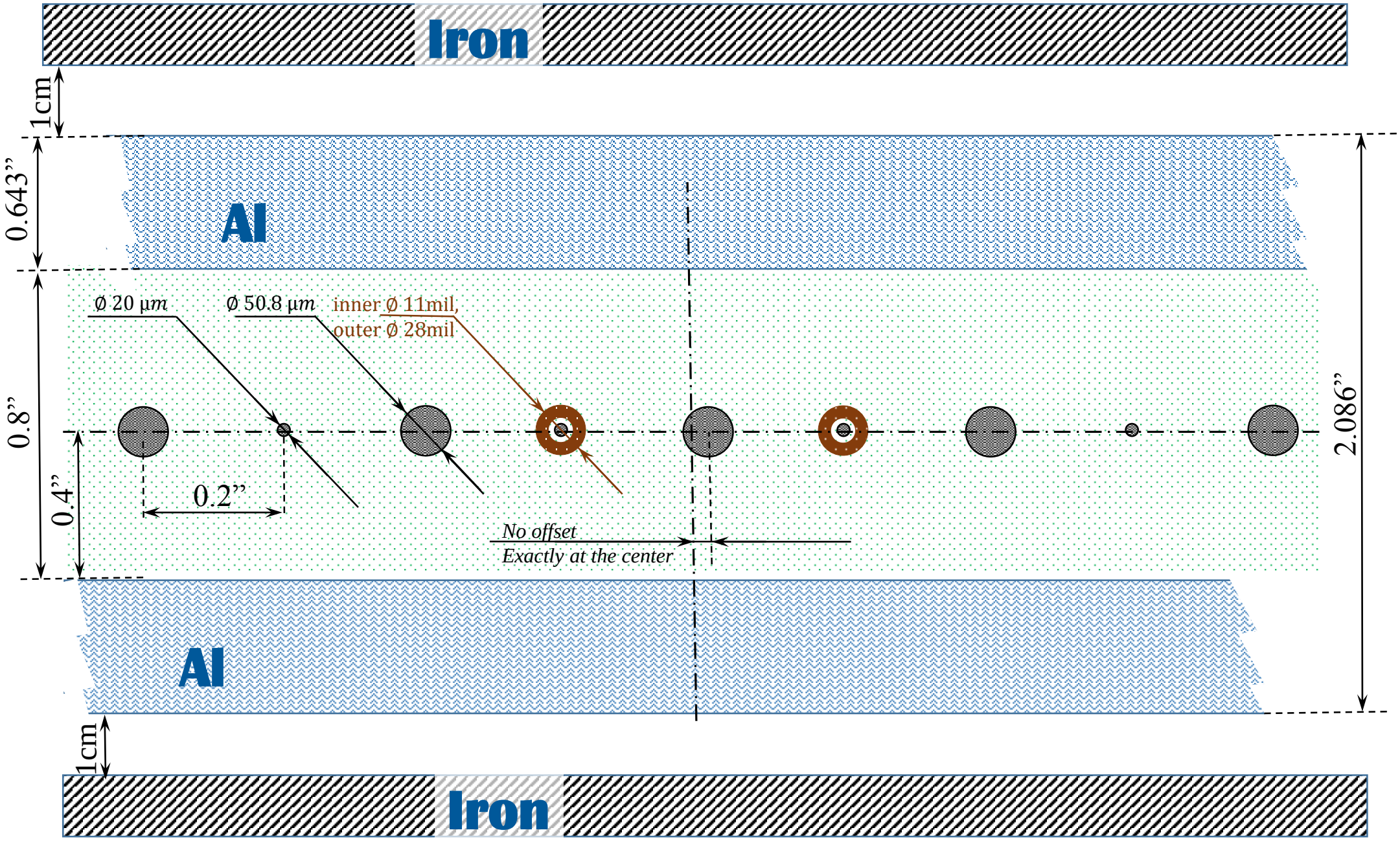
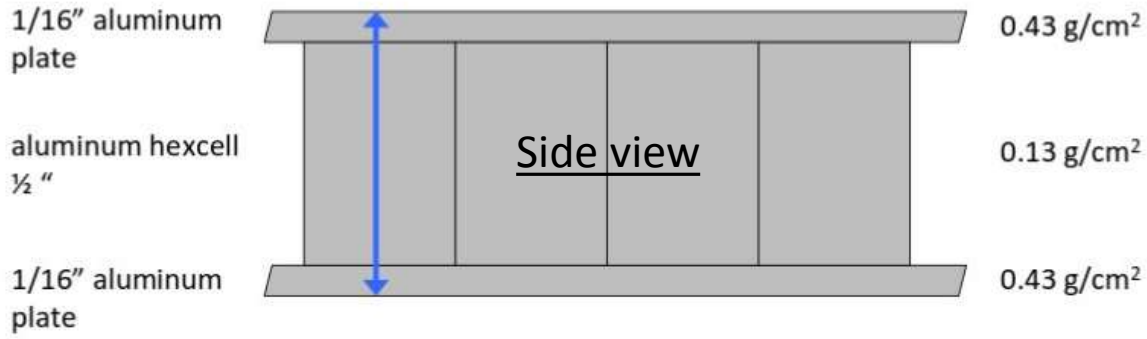

Iron
1cm
0.643”
Al
Ø 20 μm
Ø 50.8 μm
inner Ø 11mil,
outer Ø 28mil
0.8”
0.4”
0.2”
No offset
Exactly at the center
2.086”
Al
1cm
Iron

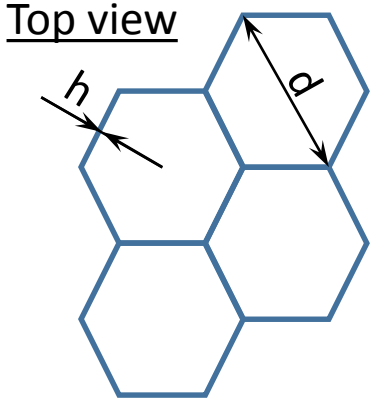
Aluminum plate structure

0.643" = 1/8" plate aluminum + ½" hexcell + 0.018" glue



Total = 0.99 g/cm²

Top view



Total radiation length/plate = 4.1 %

16 plates × radiation length/plate = 66 %

$$d = 0.25"$$

$$h^{*} \approx \frac{\sqrt{3}}{8} \times \frac{0.13}{0.43} \times \frac{1"}{16} = 103.9\ \mu m$$

- Sense wire: 20μm, tungsten with gold plate
- Ground wire: 50.8μm, Be-copper alloy (1.5%±0.5% of Be)
- MPWC: gas mixture 90% Ar + 10% CO_2 (by volume),
  about atmospheric pressure, *1.7*g/l* density at standard conditions
- Carbon tubes: inner diameter 11mil, outer 28mil
- Carbon linear density 0.4g/m, volume density *1.19*g/cm*^{3}
- Dead central region currently has 18cm diameter
- Aluminum plate (1/16" thick) density = 2.709* g//*cm*^{3}
- Hexcell average volume density = 0.102* g/*cm*^{3}
- Hexcell material thickness = 100*μm

***** (*Ilya's calculations*)