No offset
Exactly at the center

Iron

Al

Iron
Aluminum plate structure

\[
\begin{align*}
0.643" &= \frac{1}{8}" \text{ plate aluminum} + \frac{1}{2}" \text{ hexcell} + 0.018" \text{ glue} \\
1/16" \text{ aluminum plate} &
\begin{array}{c}
\text{Side view} \\
0.43 \text{ g/cm}^2 \\
0.13 \text{ g/cm}^2 \\
0.43 \text{ g/cm}^2 \\
\end{array} \\
\text{aluminum hexcell} &\frac{1}{2}" \\
1/16" \text{ aluminum plate} &
\end{align*}
\]

Total = 0.99 g/cm²

Total radiation length/plate = 4.1 %

16 plates \times \text{radiation length/plate} = 66 %

\[d = 0.25"\]

\[
h^* \approx \frac{\sqrt{3}}{8} \times \frac{0.13}{0.43} \times \frac{1"}{16} = 103.9 \mu\text{m}
\]
• 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% CO₂ (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/cm³
• Dead central region currently has 18cm diameter
• Aluminum plate (1/16” thick) density = 2.709* g/cm³
• Hexcell average volume density = 0.102* g/cm³
• Hexcell material thickness = 100*μm

* (Ilya’s calculations)