

Information on material before Spectrometers

Target:

Entrance window thickness: 0.175 mm Al

Target width: 3.00"

Target length: 15 cm

Wall thickness: 0.173 mm Al

Tip radius: 1.5"

Tip thickness: 0.132 mm Al

Above information can be found here:

<http://hallaweb.jlab.org/12GeV/experiment/E12-07-108/Documents/Target/HallATargetConfiguration21915.pdf>

Technical drawings of the target can be found here:

http://hallaweb.jlab.org/12GeV/experiment/E12-07-108/Documents/Target/A_TGT_2-17.zip

Survey Report for the target can be found here:

http://hallaweb.jlab.org/12GeV/experiment/E12-07-108/Technical_Docs/survey_reports/Spring2015/DT_A1606.doc

After Target:

Scattering chamber exit window: 16.0 mil (i.e. 0.016") of Al

Air from scattering chamber to HRS vacuum: 10.62" (LHRS) , 13.33" (RHRS)

Window on spectrometer entrance: 12.0 mil (i.e. 0.012") kapton

Scattering chamber technical drawing can be found here:

/u/group/halla/www/hallaweb/html/12GeV/experiment/E12-07-108/Technical_Docs/drawings/A06114-03-03-0100_rev-.pdf

Technical drawing for sieve / spectrometer entrance can be found here:

/u/group/halla/www/hallaweb/html/12GeV/experiment/E12-07-108/Technical_Docs/drawings/A07108-15-01-0400.pdf

/u/group/halla/www/hallaweb/html/12GeV/experiment/E12-07-108/Technical_Docs/drawings/A07108-15-01-0401.pdf

Older Sieve design (not in use):

/u/group/halla/www/hallaweb/html/12GeV/experiment/E12-07-108/Technical_Docs/drawings/A07108-15-01-0300.pdf